**Thurston County** 

# Capital Improvement Program 2021-2026

Appendix G

Adoption \_\_\_\_\_\_, 2020

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#### **CHAPTER 1 - INTRODUCTION**

The Growth Management Act (GMA) requires Thurston County to maintain a capital facilities element. The Comprehensive Plan includes the 20-year capital facilities plan goals, policies, and objectives, and additional comprehensive plan chapters address specific types of capital facilities and levels of service (see especially Chapters 2, 5, 6, and 7). This Appendix serves as the 6-year financing plan required by GMA (RCW 36.70A.070(3)(d)) for capital facilities necessary to support growth as anticipated in the land use element (Chapter 2). This 6-year plan is called the Capital Improvement Program (CIP).

The capital facilities covered by this CIP are primarily those owned or managed by Thurston County government necessary to support growth and development. A summary of the facilities provided by other government entities to support planned growth is also provided. For purposes of the CIP, capital facilities are defined as those projects anticipated to cost \$100,000 or more, with a 10-year life cycle, and anything funded with real estate excise tax (REET) funds or impact fees.

Capital facilities provided by cities, including the extension of water and sewer systems to unincorporated urban growth areas adjacent to the cities, are found in joint plans with cities in Thurston County. The portions of joint plans that apply to unincorporated urban growth areas are adopted by both the applicable city and Thurston County.

Planning for capital facilities is a complex task carried out by each department of the County. It requires an understanding of current conditions relative to future needs, an assessment of various types of capital facilities that could be provided, analysis to identify the most effective and efficient facilities to support the needed service and addressing how these facilities will be financed. This CIP is the product of separate but coordinated planning efforts, each focusing on a specific category of facilities.

The CIP is a planning document. It is not a budget for expenditures, nor a guarantee that the projects will be implemented. It assumes receipt of outside grant resources, and if grants are not received, projects may be delayed or removed. Each capital project listed in the CIP will need to go through a separate environmental review and approval process.

The CIP includes a six-year capital construction and investment program for specific projects. It also includes purchases for public facilities and services by the County. The CIP specifies revenues that will include such capital facilities within projected funding capacities. Part of the function of the CIP is to clearly identify the sources of public money for such purposes. The CIP incorporates by reference annual Transportation Improvement Program and its supporting documents. This plan fulfills the county's financial planning responsibilities under the GMA which covers a six-year period, the years 2021-2026. Transportation grants typically require a six-year plan, and this period is one in which the County can address its immediate capital needs.

#### Summary of revenue sources and expenditures

The following tables provide a summary of the sources of funds for capital projects found in this CIP, by county department, and estimated expenditures over the next six-year planning period.

Table 1-1 Summary by Revenue Source

|   | Parks and Open |                | Storm and<br>Surface Water | Water and     |                |                  | Totals by      |
|---|----------------|----------------|----------------------------|---------------|----------------|------------------|----------------|
| Revenue Sources                             | Space          | Solid Waste    | Utility                    | Sewer Utility | Transportation | County Buildings | Revenue Source |
| Existing Revenues                           | эрисс          | 331101 3131333 |                            | Sewer Stilley |                |                  | Nevenue Source |
| Central Services Building Reserve           |                |                |                            |               |                | \$6,882,000      | \$6,882,000    |
| Grants Committed                            |                |                |                            |               | \$14,072,143   | \$1,500,000      | \$15,572,143   |
| Other, Federal/State/Local Agency           |                |                |                            |               | \$19,574,854   |                  | \$19,574,854   |
| Parks Impact Fees                           | \$2,955,750    |                |                            |               | \$10,000       |                  | \$2,965,750    |
| Real Estate Excise Tax                      | \$1,744,250    |                |                            | \$3,443,914   | \$18,266,000   | \$39,650,000     | \$63,104,164   |
| Road Fund                                   |                |                |                            |               | \$34,559,930   | \$1,335,000      | \$35,894,930   |
| Solid Waste Tipping Fees, Rates and Charges |                | \$24,043,454   |                            |               |                |                  | \$24,043,454   |
| Stormwater Utility Rates                    |                |                | \$8,758,685                |               |                |                  | \$8,758,685    |
| Transportation Impact Fees                  |                |                |                            |               | \$3,309,000    |                  | \$3,309,000    |
| Trial Court Improvement Fund                |                |                |                            |               |                | \$1,300,000      | \$1,300,000    |
| Utility Revenue                             |                |                |                            | \$7,951,086   |                |                  | \$7,951,086    |
| Existing Revenues<br>Totals                 | \$4,700,000    | \$24,043,454   | \$8,758,685                | \$11,395,000  | \$89,791,927   | \$50,667,000     | \$189,356,066  |

|                                    |                |              | Storm and     |               |                |                  |                |  |  |  |  |
|------------------------------------|----------------|--------------|---------------|---------------|----------------|------------------|----------------|--|--|--|--|
|                                    | Parks and Open |              | Surface Water | Water and     |                |                  | Totals by      |  |  |  |  |
| Revenue Sources                    | Space          | Solid Waste  | Utility       | Sewer Utility | Transportation | County Buildings | Revenue Source |  |  |  |  |
| Proposed New Revenues or Increased |                |              |               |               |                |                  |                |  |  |  |  |
| Rates                              |                |              |               |               |                |                  |                |  |  |  |  |
| Bonds - Future                     |                |              |               |               |                | \$56,500,000     | \$56,500,000   |  |  |  |  |
| Utility Loans/Grants               |                |              |               | \$240,000     |                |                  | \$240,000      |  |  |  |  |
| Proposed                           | \$0            | \$0          | \$0           | \$240,000     | \$0            | \$56,500,000     | \$56,740,000   |  |  |  |  |
| Totals                             |                |              |               |               |                |                  |                |  |  |  |  |
|                                    |                |              |               |               |                |                  |                |  |  |  |  |
| REVENUE<br>TOTALS                  | \$4,700,000    | \$24,043,454 | \$8,758,685   | \$11,635,000  | \$89,791,927   | \$107,167,000    | \$246,096,066  |  |  |  |  |

Table 1-2 Summary by Division and Year

| Divisions                | 2021         | 2022         | 2023         | 2024         | 2025         | 2026         | Total         | % of Total Cost<br>(rounded) |
|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|------------------------------|
| Parks                    | \$2,175,000  | \$1,527,500  | \$687,500    | \$185,000    | \$75,000     | \$50,000     | \$4,700,000   | 2%                           |
|                          |              |              |              |              |              |              |               |                              |
| Solid Waste              | \$4,993,434  | \$650,000    | \$4,720,000  | \$7,290,000  | \$5,350,000  | \$1,100,000  | \$24,043,454  | 10%                          |
|                          |              |              |              |              |              |              |               |                              |
| Storm & Surface<br>Water | \$2,488,685  | \$3,195,000  | \$947,000    | \$1,479,000  | \$599,000    | \$50,000     | \$8,758,685   | 4%                           |
|                          |              |              |              |              |              |              |               |                              |
| Transportation           | \$21,055,927 | \$12,507,000 | \$23,351,000 | \$13,834,000 | \$10,874,000 | \$8,170,000  | \$89,791,927  | 37%                          |
|                          |              |              |              |              |              |              |               |                              |
| Water & Sewer            | \$1,412,000  | \$3,201,000  | \$2,659,000  | \$1,557,000  | \$1,506,000  | \$1,290,000  | \$11,635,000  | 5%                           |
|                          |              |              |              |              |              |              |               |                              |
| General                  | \$8,507,000  | \$22,160,000 | \$51,800,000 | \$800,000    | \$1,900,000  | \$21,900,000 | \$107,167,000 |                              |
| Government               |              |              |              |              |              |              |               | 44%                          |
| Facilities               |              |              |              |              |              |              |               |                              |
|                          |              |              |              |              |              | _            |               |                              |
| Total                    | \$40,632,046 | \$43,240,500 | \$84,164,500 | \$25,304,000 | \$25,145,000 | \$32,560,000 | \$246,096,066 | 100.00%                      |

# CHAPTER 2 – COUNTY PARKS, RECREATION AND OPEN SPACE

The inventory of County Parks, trails, open space and preserve area is 2,578 acres. This inventory is shown in table 2-1.

Table 2-1 Existing Parks and Trails Inventory

| Facility Name                          | Location    | Capacity or size              |  |  |  |  |  |  |  |
|--|-------------|-------------------------------|--|--|--|--|--|--|--|
| ACTIVE REGIONAL PARKS                  |             |                               |  |  |  |  |  |  |  |
| Deschutes Falls                        | SE          | 155 Acres                     |  |  |  |  |  |  |  |
| Kenneydell                             | SW          | 18 Acres<br>22 Acres Addition |  |  |  |  |  |  |  |
| Burfoot                                | NW          | 60 Acres                      |  |  |  |  |  |  |  |
| Frye                                   | NW          | 86 Acres                      |  |  |  |  |  |  |  |
| Guerin                                 | NW          | 40 Acres                      |  |  |  |  |  |  |  |
| OPEN SPACE/UNDEVELOPED PARK SITES      |             |                               |  |  |  |  |  |  |  |
| Rainier View Park                      | SE          | 54 Acres                      |  |  |  |  |  |  |  |
| Ruth Prairie Park                      | SE          | 35 Acres                      |  |  |  |  |  |  |  |
| Louise H. Meyers Park                  | NW          | 38 Acres                      |  |  |  |  |  |  |  |
| Deschutes River Park                   | SE          | 50 Acres                      |  |  |  |  |  |  |  |
| Lake Lawrence Park                     | SE          | 15 Acres                      |  |  |  |  |  |  |  |
| Indian Road Park                       | NE          | 5 Acres                       |  |  |  |  |  |  |  |
| Cooper Point Park                      | NW          | 32 Acres                      |  |  |  |  |  |  |  |
| PR                                     | ESERVES     |                               |  |  |  |  |  |  |  |
| Glacial Heritage Preserve              | SW          | 1,020 Acres                   |  |  |  |  |  |  |  |
| Woodland Creek Wetlands                | NE          | 75 Acres                      |  |  |  |  |  |  |  |
| Johnson Point Wetlands                 | NE          | 26 Acres                      |  |  |  |  |  |  |  |
| Black River Natural Area               | SW          | 13 Acres                      |  |  |  |  |  |  |  |
| SPECIA                                 | L USE PARKS |                               |  |  |  |  |  |  |  |
| Off-Leash Dog Park                     | NE          | 5 Acres                       |  |  |  |  |  |  |  |
| 1                                      | rails       |                               |  |  |  |  |  |  |  |
| Chehalis Western Trail                 | NE-SE       | 182 Acres (26 trail miles)    |  |  |  |  |  |  |  |
| Chehalis Western (Vail Loop Trailhead) | SE          | Included in trail acreage     |  |  |  |  |  |  |  |

| Chambers Lake Trailhead         | NE       | Included in trail acreage    |
|---------------------------------|----------|------------------------------|
| 67 <sup>th</sup> Ave. Trailhead | NE       | Included in trail acreage    |
| Fir Tree Road Trailhead         | SE       | Included in trail acreage    |
| Smith Lake                      | NE       | Included in trail acreage    |
| Yelm – Tenino Trail             | SE       | 400 Acres (14.5 trail miles) |
| Yelm Center Trailhead           | SE       | Included in trail acreage    |
| Tenino Park Trailhead           | SW       | Included in trail acreage    |
| Rainier Trailhead               | SE       | Included in trail acreage    |
| Gate-Belmore Trail (unimproved) | NW-SW    | 243 Acres (14 trail miles)   |
| Ralph Munro Trail               | NW       | (1.5 trail miles)            |
| HISTOR                          | IC SITES |                              |
| Mima Cemetery                   | SW       | 2 Acres                      |
| Ft. Eaton Monument              | SE       | 1 Acres                      |
| George Washington Bush Monument | SE       | 1 Acres                      |

#### **Future Needs**

Currently there are about 972 acres of developed and operational parkland and trails, designed to meet the level of service for parks, recreation and open space as stated in Chapter 9 of the Thurston County Comprehensive Plan Thurston County. Additional lands needed over the 20-year planning period for the comprehensive plan is approximately 210 acres. Land acquisition and park and trail development proposed in the six-year planning period as described in Table 2-2 will assure the adequate level of service is maintained to address the needs and demands of the growing population.

# **Proposed Improvements**

Parkland and trail improvement projects and associated facilities, totaling about \$4.4 million, are proposed over the six-year planning period. These costs would be paid for by parks impact fees and real estate excise tax funds as shown in the Table 2-2.

Table 2-2: Public Works- Parks and Open Space Project Funding

| REVENUES FOR PROJECTS  |             |             |           |           |          |          |             |
|------------------------|-------------|-------------|-----------|-----------|----------|----------|-------------|
| Fund Source            | 2021        | 2022        | 2023      | 2024      | 2025     | 2026     | 6-Yr. Total |
| Real Estate Excise Tax | \$701,750   | \$621,875   | \$253,375 | \$89,750  | \$51,250 | \$26,250 | \$1,744,250 |
| Park Impact Fees       | \$1,473,250 | \$905,625   | \$434,125 | \$95,250  | \$23,750 | \$23,750 | \$2,955,750 |
| TOTALS                 | \$2,175,000 | \$1,527,500 | \$687,500 | \$185,000 | \$75,000 | \$50,000 | \$4,700,000 |

| EXPENDITURES FOR PROJECTS        |             |                       |             |           |           |          |          |      |             |
|----------------------------------|-------------|-----------------------|-------------|-----------|-----------|----------|----------|------|-------------|
| Project Name                     | Fund Source | Urban Growth Area     | 2021        | 2022      | 2023      | 2024     | 2025     | 2026 | 6-Yr. Total |
| Yelm Tenino Trail - Deschutes    |             |                       |             |           |           |          |          |      |             |
| River Trestle Repair (sub-       |             |                       |             |           |           |          |          |      |             |
| structure)                       | REET        | Rural Thurston County | \$5,000     |           |           |          |          |      | \$5,000     |
| Burfoot Trail System -           |             |                       |             |           |           |          |          |      |             |
| Footbridge/Stairway              | REET        | Rural Thurston County | \$5,000     |           |           |          |          |      | \$5,000     |
|                                  |             |                       |             |           |           |          |          |      |             |
| Deschutes Falls Park Walkway     |             |                       |             |           |           |          |          |      |             |
| and View Point Improvements      | PIF/REET    | Rural Thurston County | \$550,000   |           |           |          |          |      | \$550,000   |
| Burfoot Park Restroom            |             |                       |             |           |           |          |          |      |             |
| Replacement                      | PIF/REET    | Rural Thurston County | \$1,100,000 |           |           |          |          |      | \$1,100,000 |
| Yelm-Tenino Trail Restroom -     |             |                       |             |           |           |          |          |      |             |
| Rainier                          | PIF/REET    | Rural Thurston County |             | \$150,000 | \$550,000 |          |          |      | \$700,000   |
| Chehalis Western Trail - Culvert |             |                       |             |           |           |          |          |      |             |
| Replacement (Chehalis Trail-     |             |                       |             |           |           |          |          |      |             |
| near Latigo St.)                 | REET        | Rural Thurston County | \$50,000    | \$150,000 |           |          |          |      | \$200,000   |
| Burfoot Park - Level and Grade   |             |                       |             |           |           |          |          |      |             |
| Lawn Area                        | REET        | Rural Thurston County |             | \$25,000  | \$25,000  | \$25,000 | \$25,000 |      | \$100,000   |
| Chehalis Western Trail - 41st    |             |                       |             |           |           |          |          |      |             |
| Avenue NE Trailhead              | PIF/REET    | Rural Thurston County | \$55,000    | \$440,000 | \$10,000  |          |          |      | \$505,000   |

| Kenneydell Park - Restroom       |          |                       |             |             |           |           |          |          |             |
|----------------------------------|----------|-----------------------|-------------|-------------|-----------|-----------|----------|----------|-------------|
| Replacement                      | PIF/REET | Rural Thurston County | \$55,000    | \$660,000   |           |           |          |          | \$715,000   |
| Deschutes Falls Park - Parking   |          |                       |             |             |           |           |          |          |             |
| Expansion                        | PIF/REET | Rural Thurston County |             | \$27,500    | \$27,500  | \$110,000 |          |          | \$165,000   |
| Frye Cove Park - Lawn            |          |                       |             |             |           |           |          |          |             |
| Renovation                       | REET     | Rural Thurston County |             | \$25,000    | \$25,000  |           |          |          | \$50,000    |
| Parks & Trails Asset             |          |                       |             |             |           |           |          |          |             |
| Management Implementation        | REET     | Rural Thurston County | \$5,000     |             |           |           |          |          | \$5,000     |
| Yelm-Tenino Trail / City of      |          |                       |             |             |           |           |          |          |             |
| Rainier – Recreation Courts Park |          |                       |             |             |           |           |          |          |             |
| Improvements                     | PIF      | Rural Thurston County | \$300,000   |             |           |           |          |          | \$300,000   |
| Parks, Trails and Open Space     |          |                       |             |             |           |           |          |          |             |
| Acquisition 2021-2022 Program    | PIF/REET | Countywide            | \$25,000    | \$25,000    |           |           |          |          | \$50,000    |
| Acquisition 2021 2022 Frogram    | THITKELT | Countywide            | 723,000     | 723,000     |           |           |          |          | 730,000     |
| Parks, Trails and Open Space     |          |                       |             |             |           |           |          |          |             |
| Acquisition 2023-2026 Program    | PIF/REET | Countywide            |             |             | \$25,000  | \$25,000  | \$25,000 | \$25,000 | \$100,000   |
| Parks Improvements and           |          |                       |             |             |           |           |          |          |             |
| Development 2021-2022            |          |                       |             |             |           |           |          |          |             |
| Program                          | PIF/REET | Countywide            | \$25,000    | \$25,000    |           |           |          |          | \$50,000    |
| Parks Improvements and           |          |                       |             |             |           |           |          |          |             |
| Development 2023-2026            |          |                       |             |             |           |           |          |          |             |
| Program                          | PIF/REET | Countywide            |             |             | \$25,000  | \$25,000  | \$25,000 | \$25,000 | \$100,000   |
| TOTALS                           |          |                       | \$2,175,000 | \$1,527,500 | \$687,500 | \$185,000 | \$75,000 | \$50,000 | \$4,700,000 |

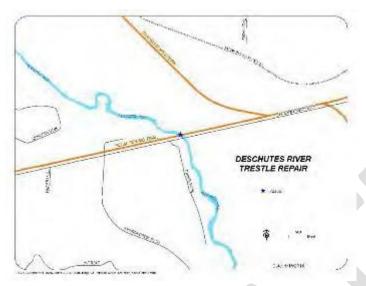
# Legend:

REET-Real Estate Excise Tax Second Quarter Funds
PIF-Park Impact Fees
Light grey shading, normal font - closeout project
Medium grey shading, bold font - construction project
Black shading, white font - engineering project

#### Completed

Chehalis Western Trail - BNSF Bridge - Talcott Ridge Dr crossing (Lacey UGA)

#### YELM-TENINO TRAIL - DESCHUTES RIVER TRESTLE REPAIR



**DESCRIPTION:** Project includes the replacement of piles/posts that hold up the 270' trestle that spans the Deschutes River as part of the Yelm-Tenino Trail. This project represents Phase 2 of the restoration of this bridge structure. Phase 1 included the replacement/renovation of the top side of the structure in 2018.

**LOCATION:** Southern Thurston County where the Yelm-Tenino Trail crosses the Deschutes River.

**JUSTIFICATION** (Need/Demand): This trestle is located roughly in the middle of the 14- mile Yelm-Tenino Trail. The structure is in disrepair and renovation was begun in 2018.

**IMPLICATION OF NOT DOING THE PROJECT:** A continuation in the degradation of the structure.

LINKS TO OTHER PROJECTS OR FACILITIES: Links the rural cities of Yelm and Tenino.

#### **BURFOOT TRAIL SYSTEM FOOTBRIDGE/STAIRWAY**



**DESCRIPTION:** The existing trail system includes many footbridges and stairways. The bridges/stairways have exceeded their life expectancy and are in need of replacement. This project will pay for materials and labor needed to rebuild/replace the failing infrastructure.

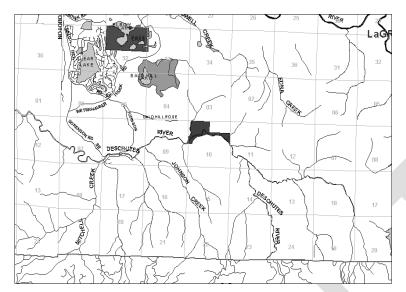
LOCATION: 6927 Boston Harbor Rd

**JUSTIFICATION (Need/Demand):** Burfoot Park is a heavily used facility. The main attraction of the park is the access to Puget sound/Budd Inlet. The trails, stairways, and bridges provide the connection from the main body and parking of the park to the shoreline. The bridges and stairways are wooden structures have deteriorated to a point that they do not serve the volume of people who use this facility.

**IMPLICATION OF NOT DOING THE PROJECT:** Additional maintenance will continue to be required to keep the trails operational.

LINKS TO OTHER PROJECTS OR FACILITIES: Boston Harbor Boat Launch

#### **DESCHUTES FALLS PARK - WALKWAY AND VIEWPOINT IMPROVEMENTS**



**DESCRIPTION:** Improvements include the addition of a viewpoint deck platform overlooking the falls. Improvement will also be made to the paths approaching the viewpoint.

**LOCATION:** Approximately 15 miles from Yelm at the end of Bald Hills Road in southeastern part of county.

**JUSTIFICATION (Need/Demand):** This is the largest publicly owned piece of recreational property in the southeastern part of the county. There is a high demand for park facilities in this section of the county. There is also a high demand for public use of this particular site. With its pristine natural environment, this site is one of the county's most valuable park assets. Current conditions include a large mud area at the viewpoint and approaching trails. The mud surface is not ideal for users and negatively impacts the environment as the mud area alters native vegetation and water run-off.

**IMPLICATION OF NOT DOING THE PROJECT:** User experience and natural environment continue to be negatively impacted.

**LINKS TO OTHER PROJECTS OR FACILITIES:** Not directly linked to other county or state park projects. Close proximity to the Weyerhaeuser properties opened for public recreational use. Adjacent to Department of Natural Resources Bald Hills Preserve.

#### **BURFOOT PARK RESTROOM REPLACEMENT**



**DESCRIPTION:** The existing restroom was built in 1977 and has exceeded is life expectancy. The project includes the removal of the existing restroom and replacing it with a larger, more energy efficient building, increasing capacity and reducing the amount of required maintenance. Also included is the addition of a smaller, second restroom located near the playground.

LOCATION: 6927 Boston Harbor Rd.

#### JUSTIFICATION (Need/Demand):

The existing restroom does not have the capacity to serve the current need. The addition of the second restroom will allow children to use the restroom in a way that does not require them to cross a three-acre lawn and be removed from the parent's sight, and will help to serve the needed capacity during the peak season.

**IMPLICATION OF NOT DOING THE PROJECT:** Additional maintenance will continue to be required to keep the restroom operational. The park rents out picnic facilities which provides revenue. The restroom needs to be able to serve these uses or the risk of losing revenue.

LINKS TO OTHER PROJECTS OR FACILITIES: Boston Harbor Boat Launch

#### YELM - TENINO TRAIL RESTROOM - RAINIER



DESCRIPTION: Install a new restroom building in Rainier near the Cityowned Wikowski Park to replace an outdated portable building currently used for City Park reservations. The new restroom will serve both the Yelm-Tenino Trail users and Wikowski Park. The restroom will be maintained by City of Rainier staff.

LOCATION: City of Rainier.

**JUSTIFICATION:** The existing restroom is not operational most of the year as it is well beyond any reasonable life expectancy. The 14-mile Yelm-Tenino Trail has restroom access at both ends, but nothing for the 14-mile stretch in between. Rainier is located half-way between Tenino and Yelm, making it a strategic location.

**IMPLICATION OF NOT DOING THE PROJECT(S):** Restrooms are not available for a span of almost 14 miles. The existing portable building is not able to be opened due to the deteriorated condition.

**LINKS TO OTHER PROJECTS OR FACILITIES:** Links the rural Cities of Yelm, Rainier, Tenino and Bucoda in the future. Connects with the County-owned Chehalis Western Trail. Connects urban and rural communities, businesses, schools, residences, park facilities, and other valuable assets. Links with proposed park sites at McIntosh Lake, the Deschutes River, and other county and city park sites.

#### **CHEHALIS WESTERN TRAIL - CULVERT REPLACEMENT**



**DESCRIPTION:** Many of the County parks/trails culverts are reaching, or have exceeded, their life expectancy and need replacement. The existing failing culverts impact fish passage and do not meet the existing NPDES standards.

**LOCATION:** Chehalis Western Trail near Latigo St SE.

**JUSTIFICATION:** (Need/Demand): As culverts approach their life expectancy and begin to degrade, they must be prioritized for substantial repair or replacement.

**IMPLICATION OF NOT DOING THE PROJECT(S):** Continued deterioration of trail culverts. Negative impact to fish passage.

**LINKS TO OTHER PROJECTS OR FACILITIES:** Links the rural Cities of Yelm, Rainier, Tenino and Bucoda in the future. Connects with the County-owned Chehalis Western Trail. Connects urban and rural communities, businesses, schools, residences, park facilities, and other valuable assets. Links with proposed park sites at McIntosh Lake, the Deschutes River, and other county and city park sites.

#### **BURFOOT PARK - LEVEL AND GRADE LAWN AREA**



**DESCRIPTION:** Project includes the re-grading of a three- acre lawn area. This project requires the soil to be leveled, re-graded, and reseeded. This project will reduce the amount maintenance time needed and will make the area more usable for the public for recreational activities.

LOCATION: 6927 Boston Harbor Rd.

**JUSTIFICATION** (Need/Demand): Burfoot Park is a very popular destination for the citizens and visitors to the region. The lawn was installed in 1977 and has settled into a series of depressions that increase the time required for maintenance of the site and lowers the life expectancy of the machinery. Park visitor experience is negatively impacted as the un-even soils limit use.

**IMPLICATION OF NOT DOING THE PROJECT:** Increased time to perform maintenance and higher replacement cost for machinery.

LINKS TO OTHER PROJECTS OR FACILITIES: Boston Harbor Boat Launch

# CHEHALIS WESTERN TRAIL – 41st AVE NE TRAILHEAD



**DESCRIPTION:** Project includes creating a ±29 stall parking area for the Chehalis Western trail. Includes constructing an asphalt parking surface, drainage structure, and installation of informational signage.

**LOCATION:** Near the intersection of the Chehalis Western Trail and 41<sup>st</sup> Ave NE.

**JUSTIFICATION:** (Need/Demand): This project would allow for vehicles to park in a safe manner as opposed to parking adjacent to the right-of-way. Addresses the need to add designated parking areas for trail use.

**IMPLICATION OF NOT DOING THE PROJECT:** Continued congestion with parking adjacent to the right-of-way.

**LINKS TO OTHER PROJECTS OR FACILITIES:** Links the rural Cities of Yelm, Rainier, Tenino and Bucoda in the future. Connects with the County-owned Chehalis Western Trail. Connects urban and rural communities, businesses, schools, residences, park facilities, and other valuable assets. Links with proposed park sites at McIntosh Lake, the Deschutes River, and other county and city park sites.

#### KENNEYDELL PARK - RESTROOM REPLACEMENT



**DESCRIPTION:** Project replaces the existing restroom located adjacent to the Lodge Building. The existing building was in place when the County purchased the property in 1988. The age of the structure is unknown but estimated to be approximately 50 years old.

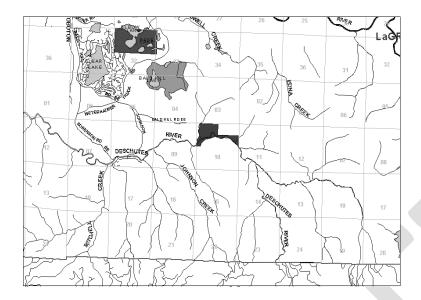
**LOCATION:** Kenneydell Park 6745 Fairview Rd SW

**JUSTIFICATION** (Need/Demand): The existing restroom is configured in a way that does not meet current ADA conditions. The building is essentially facing backwards now that its main function is the serve the lodge. General items such as toilets, sinks, stalls, heat, and plumbing are all beyond their life expectancy. The new restroom will address additional capacity with an additional number of stalls and will become ADA compliant.

**IMPLICATION OF NOT DOING THE PROJECT:** A continuation in the degradation of the structure. Continue to be non-compliant with the ADA requirements

**LINKS TO OTHER PROJECTS OR FACILITIES:** Will link with the currently un-developed Gate-Belmore Trail

#### **DESCHUTES FALLS PARK – PARKING LOT EXPANSION**



**DESCRIPTION:** Project adds to the existing parking area at the site. The existing parking lot does not have adequate parking spaces to serve the need.

**LOCATION:** Deschutes Falls Park. 25005 SE Bald Hills Rd

**JUSTIFICATION** (Need/Demand): The existing parking lot does not provide adequate parking spaces for park users during the summer months. Many vehicles are currently required to park on Bald Hills Road, adjacent to the site, to access the park. New parking spaces will address capacity by allowing more users to park safely inside the park.

**IMPLICATION OF NOT DOING THE PROJECT:** Vehicles continuing to park on Bald Hills Road presenting possible safety issues and reducing visitors to the park.

#### FRYE COVE - LAWN RENOVATION



**DESCRIPTION:** Project addresses an issue of safety, aesthetics, and maintenance efficiency. The existing lawn has been settling in a way that produces large "sinkholes". The fill, over which the lawn was placed, is comprised of concrete rubble and has many voids. This project will over-excavate the lawn area, remove or reposition the concrete pieces, and replace and grade the soils.

LOCATION: Frye Cove park 4000 NW 61st Ave

**JUSTIFICATION** (Need/Demand): The completed project will provide for a safer public area, improve the aesthetics, and reduce maintenance time.

**IMPLICATION OF NOT DOING THE PROJECT:** More sinkholes may develop making the area less safe and continue to take additional maintenance time to repair.

#### YELM-TENINO TRAIL / CITY OF RAINIER – RECREATIONAL COURTS PARK IMPROVEMENTS



**DESCRIPTION:** Install a tennis court and a pickleball court in Rainier in the City-owned Wikowski Park area near the Yelm-Tenino trailhead. The facilities will be maintained by City of Rainier staff.

**LOCATION:** City of Rainier.

**JUSTIFICATION:** These recreational courts will serve visitors to both the park and the trailhead. This area is located half-way between Tenino and Yelm, making it a strategic park and recreation location, which will be further enhanced by the planned addition of new restroom facilities.

**IMPLICATION OF NOT DOING THE PROJECT(S):** Limited availability of and opportunities to use recreation facilities in the area.

LINKS TO OTHER PROJECTS OR FACILITIES: The location of the proposed tennis and pickleball court compliments the planned addition of a restroom at the trailhead near the City of Rainier's Wikowski Park. The Yelm-Tenino Trail links the rural Cities of Yelm, Rainier, Tenino and Bucoda in the future. Connects with the County-owned Chehalis Western Trail. Connects urban and rural communities, businesses, schools, residences, park facilities, and other valuable assets. Links with proposed park sites at McIntosh Lake, the Deschutes River, and other county and city park sites.

#### PARKS, TRAILS AND OPEN SPACE ACQUISITION PROGRAM

**DESCRIPTION:** - The Thurston County Comprehensive Parks, Open Space, and Trails Plan defines several goals oriented to preserving open space and natural areas. The focus is on properties that contain special features intended to be used regionally by all residents of the county, inside and/or outside cities

**LOCATION:** Various locations throughout the county.

**JUSTIFICATION (Need/Demand):** To allow the county to remain in compliance with the Parks Comprehensive Plan in terms of acreage per 1000 residents and to allow for purchase of properties that may become available with the purchase being time sensitive.

**IMPLICATION OF NOT DOING THE PROJECT:** Opportunity to purchase unique properties or properties that may be time-sensitive may be lost.

LINKS TO OTHER PROJECTS OR FACILITIES: Varies

#### PARKS IMPROVEMENTS AND DEVELOPMENT PROGRAM

#### **DESCRIPTION:**

Repairs to existing Parks system infrastructure is required to ensure that safe and operation sites are available to the public. Additional capacity is added as needed to keep pace with a consistent increase in the volume of users.

**LOCATION:** County-wide.

#### JUSTIFICATION (Need/Demand):

There are life expectancies associated with the infrastructures that make up the County Parks system. Facility Improvements are used to repair/replace existing infrastructures to make sure facilities remain safe, accessible and to add capacity when needed.

# **IMPLICATION OF NOT DOING THE PROJECT:**

Infrastructure failure results in an unsafe condition that puts the County in a position of elevated liability. Repairing a system through proper maintenance is much more cost effective than replacing or repairing due to a failure.

#### LINKS TO OTHER PROJECTS OR FACILITIES:

Varies depending upon site.

#### **CHAPTER 3 - SOLID WASTE**

State law requires each county within the state, in cooperation with various cities and towns within the county, to prepare a coordinated, comprehensive Solid Waste Management Plan. The purpose of this plan is to serve as a guiding document for local governments' solid waste programs, including programs for waste reduction, collection, handling, recycling, and disposal. The plan must also list all existing solid waste management facilities within the participating jurisdictions and outline needs for future facilities that will be required to meet population and waste generation projections (RCW 70.95.080).

An inventory of the solid waste management facilities owned by Thurston County is presented below. These facilities are located at the Waste and Recovery Center (WARC), 2420 Hogum Bay Road NE in Lacey, unless otherwise noted.

**Table 3-1 Existing Inventory** 

| Facility Name  | Location  | Capacity or size  |
|--|-----------|---|
| Transfer Station                                     | WARC      | Maximum 159 tons per hour <u>or</u> 80 customers per hour |
| Closed Landfill (formerly Hawks Prairie<br>Landfill) | WARC      | N/A   |
| HazoHouse (moderate risk waste facility)             | WARC      | 150 customers per day                                     |
| Vactor and Street Sweeping Decant<br>Facility        | WARC      | 3,200 square feet   |
| Rainier Drop-Box Facility                            | Rainier   | 240 cubic yards per day                                   |
| Rochester Drop-Box Facility                          | Rochester | 320 cubic yards per day                                   |

#### **Future Needs**

Thurston County's transfer station receives and manages most of the solid waste generated in the County, as well as a small amount of waste generated in nearby counties. The transfer station, HazoHouse, and two drop-box facilities must serve increasing numbers of customers and corresponding quantities of waste as population increases. The scales and scalehouses associated with the transfer station can accommodate up to about 800 customers per day (based on a 10-hour day) without forming long queue lines that create unacceptable customer wait times and conflicts with traffic movement within the facility. Currently, the scalehouses exceed the peak daily customer count about 20 percent of the time, with the highest customer demand on weekend with counts over 1,200. Based on current and projected population growth in Thurston County and corresponding waste generation rates over the next six years, the transfer station and drop-box facilities will need significant investment to construct those improvements needed to address aging infrastructure and meet service

demand. In addition, the County is obligated to maintain the environmental monitoring systems and other environmental management infrastructure associated with the closed landfill, much of which requires repair or replacement due to obsolescence or damage from differential settlement.

# **Proposed Improvement Projects**

As shown in Table 3-2, repairs and improvements to the closed landfill, transfer station and drop-box facilities totaling a \$24 million are proposed over the six-year planning period. These costs will be paid from solid waste tipping fees and the post closure reserve fund as shown in Table 3-2.



Table 3-2 Solid Waste Proposed Capital Projects and Funding

|  |        |                    |             |                 | 1           | 1           | 1           | 1           |   |
|--|--------|--------------------|-------------|-----------------|-------------|-------------|-------------|-------------|---|
| REVENUES FOR PROJECTS                    |        |                    |             |                 |             |             |             |             |   |
| Fund Source                              |        |                    | 2021        | 2022            | 2023        | 2024        | 2025        | 2026        | 6-Yr. Total                             |
| Solid Waste Tipping Fees, Rates and      |        |                    |             |                 |             | \$7,290,00  |             |             |   |
| Charges                                  |        |                    | \$4,933,454 | \$650,000       | \$4,720,000 | 0           | \$5,350,000 | \$1,100,000 | \$24,043,454                            |
|  |        |                    | 64 000 454  | <b>4650.000</b> | 44 700 000  | \$7,290,00  | ÅE 252 222  | 44 400 000  | 424 042 454                             |
| TOTALS                                   |        |                    | \$4,933,454 | \$650,000       | \$4,720,000 | 0           | \$5,350,000 | \$1,100,000 | \$24,043,454                            |
|  |        |                    |             |                 |             |             |             |             |   |
| EXPENDITURES FOR PROJECTS                |        |                    |             |                 |             |             |             |             |   |
|  | Fund   | Urban              |             |                 |             |             |             |             |   |
| Project Name                             | Source | <b>Growth Area</b> | 2021        | 2022            | 2023        | 2024        | 2025        | 2025        | 6-Yr. Total                             |
| Sump/Vault Access Hatch and Well Cover   |        |                    |             |                 |             |             |             |             |   |
| Replacement/Retrofit                     | SWF    | City of Lacey      | \$10,000    |                 |             |             |             |             | \$10,000                                |
| Flare Station                            | SWF    | City of Lacey      | \$455,000   |                 |             |             |             |             | \$455,000                               |
| SCADA System Replacement                 | SWF    | City of Lacey      | \$522,000   |                 |             |             |             |             | \$522,000                               |
| Rochester Drop Box - Renovation,         |        | Rural              |             |                 |             |             |             |             |   |
| Security and Utility Upgrades, and Scale |        | Thurston           |             |                 |             |             |             |             |   |
| Installation                             | SWF    | County             | \$1,698,227 |                 |             |             |             |             | \$1,698,227                             |
| Rainier Drop Box - Renovation, Security  |        | 6:1                |             |                 |             |             |             |             |   |
| and Utility Upgrades, and Scale          | CVA/E  | City of            | ć1 COO 227  |                 |             |             |             |             | ć1 COO 227                              |
| Installation Pump Systems Upgrades and   | SWF    | Rainier            | \$1,698,227 |                 |             |             |             |             | \$1,698,227                             |
| Improvements                             | SWF    | City of Lacey      |             |                 | \$3,000,000 |             |             |             | \$3,000,000                             |
| Security, Technology and Site            | 3111   | City or Eddely     |             |                 | \$3,000,000 |             |             |             | <i><del>43,000,000</del></i>            |
| Improvements                             | SWF    | City of Lacey      | \$100,000   | \$500,000       | \$500,000   |             |             |             | \$1,100,000                             |
| Transfer Station Operations Facilities   |        |                    |             |                 |             |             |             |             |   |
| Upgrades and Improvements                | SWF    | City of Lacey      | \$50,000    | \$50,000        |             | \$190,000   |             |             | \$290,000                               |
| Transfer Station Sort Line Removal       | SWF    | City of Lacey      |             |                 | \$160,000   |             |             |             | \$160,000                               |
| Transfer Station Compactor Overhaul and  |        | 210, 21 2000)      |             |                 | 7 = 20,000  |             |             |             | + = = = = = = = = = = = = = = = = = = = |
| Maintenance                              | SWF    | City of Lacey      |             |                 | \$960,000   |             |             |             | \$960,000                               |
| Public Tipping Area With New Scales and  |        |                    |             |                 | . ,         |             |             |             | •                                       |
| Scalehouses                              | SWF    | City of Lacey      | \$300,000   |                 |             | \$7,000,000 |             |             | \$7,300,000                             |

Appendix G – Six Year Capital Improvement Program 2021-2026

| New Administrative Operations Facilities                    | SWF | City of Lacey            |             |           |             |             | \$5,250,000 |             | \$5,250,000  |
|---|-----|--------------------------|-------------|-----------|-------------|-------------|-------------|-------------|--------------|
| Site Differential Settlement Repairs                        | SWF | City of Lacey            |             |           |             |             |             | \$1,000,000 | \$1,000,000  |
| General Facilities Renovations and Upgrades Program '21-'22 | SWF | City of Lacey<br>/ Rural | \$100,000   | \$100,000 |             |             |             |             | \$200,000    |
| General Facilities Renovations and Upgrades Program '23-'26 | SWF | City of Lacey<br>/ Rural |             |           | \$100,000   | \$100,000   | \$100,000   | \$100,000   | \$400,000    |
| TOTALS  |     |                          | \$4,933,454 | \$650,000 | \$4,720,000 | \$7,290,000 | \$5,350,000 | \$1,100,000 | \$24,043,454 |

#### Legend:

SWF - Solid Waste Tipping Fees, Rates, and Charges
Light grey shading, normal font - closeout project
Medium grey shading, bold font - construction project
Black shading, white font - engineering project

# **Dropped Projects:**

Closed Landfill - Completion of Landfill Cover on Southern Slope of 70-Acre Cell

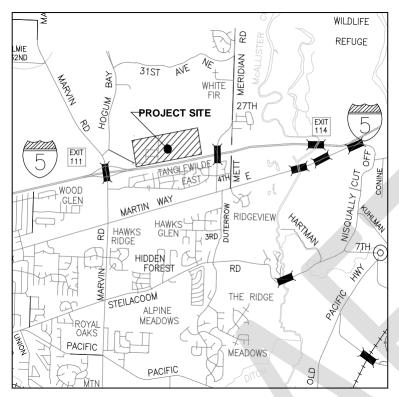
General Stormwater Maintenance & Improvements (included in M&O Fund)

Rainier/Rochester Drop Box Maintenance Program (included in M&O Fund)

# Revised Project Timing:

Differential Settlement Repair

# Sump/Vault Access Hatch and Well Cover Replacement/Retrofit



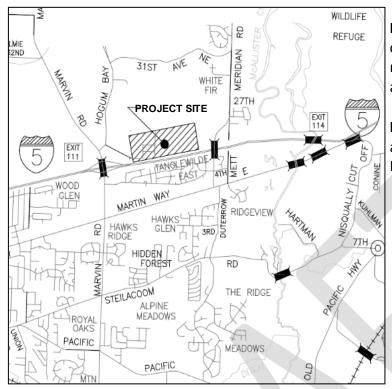
**DESCRIPTION:** Replacement and retrofit of access hatches for the large sumps and vaults associated with the environmental management systems, as well as replacement and retrofit of covers on the landfill's groundwater and gas monitoring wells.

**LOCATION:** Thurston County Waste and Recovery Center, 2420 Hogum Bay Road, Lacey

**JUSTIFICATION:** The access hatches that cover many of the large below-grade sumps and vaults must be routinely opened for sampling or inspection. These hatches should be replaced with grates and lightweight covers to mitigate the risk of falling and injuries. Covers on the groundwater monitoring and methane gas wells should be replaced or retrofit to prevent stormwater entry and unauthorized access.

**IMPLICATION OF NOT DOING THE PROJECT(S):** Employees will continue to be at risk of falls and injuries due to the difficulty of opening existing access hatches to below-grade sumps and vaults that are up to 44 inches in diameter and 15 feet deep. In addition, surface water intrusion and security of gas and groundwater monitoring wells will not be addressed.

# **Flare Station**



**DESCRIPTION:** Replacement of the closed landfill's flare station which is required for methane gas treatment and migration control.

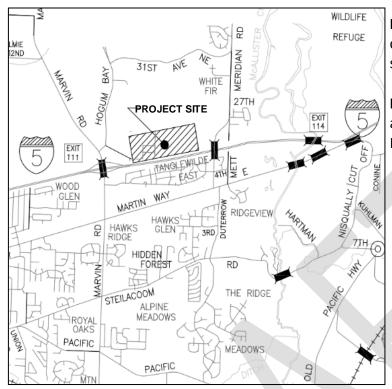
**LOCATION:** Thurston County Waste and Recovery Center, 2420 Hogum Bay Road, Lacey

**JUSTIFICATION:** The current flare station is oversized, and replacement is required in order to operate at current and projected levels of methane gas within the closed landfill.

**IMPLICATION OF NOT DOING THE PROJECT(S):** Operation of the existing flare station will fail to meet permit requirements for treatment of methane gas and migration control.

**LINKS TO OTHER PROJECTS OR FACILITIES:** The closed landfill's SCADA system has failed due to an aged software platform. All environmental systems and pump stations at the site must tie into this platform in order to maintain electronic control and alarm capability. Design and replacement of the SCADA system must be accomplished in parallel with repair and upgrade of these other systems and pump stations.

# **SCADA System Replacement**



**DESCRIPTION:** Replacement of the closed landfill's electronic control system (SCADA).

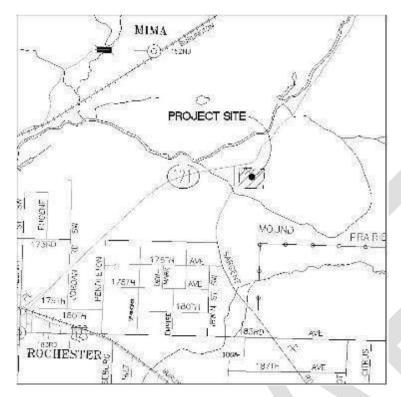
**LOCATION:** Thurston County Waste and Recovery Center, 2420 Hogum Bay Road, Lacey

**JUSTIFICATION:** The controlling electronic system (SCADA) and associated software that supports the flare and other environmental monitoring systems has failed and must be replaced.

**IMPLICATION OF NOT DOING THE PROJECT(S):** Operation of the existing flare station will fail to meet permit requirements for treatment of methane gas and migration control.

**LINKS TO OTHER PROJECTS OR FACILITIES:** The closed landfill's SCADA system has failed due to an aged software platform. All environmental systems and pump stations at the site must tie into this platform in order to maintain electronic control and alarm capability. Design and replacement of the SCADA system must be accomplished in parallel with repair and upgrade of these other systems, including the flare and pump stations.

# Rochester Drop-Box-Renovation, Security and Utility Upgrades, and Scale Installation



**DESCRIPTION:** Renovation of the Rochester Drop-Box Facility to include security and utility upgrades, improved staff facilities, and installation of scales for weighing loads.

**LOCATION:** 16500 Sargent Road, Rochester

**JUSTIFICATION:** Infrastructure at the drop-box facility is obsolete and inadequate to meet staffing, operational, and technology needs, as well as increased customer demand. Scales should be installed at the site to improve functionality, accommodate population growth, and ensure full fee recovery.

**IMPLICATION OF NOT DOING THE PROJECT(S):** Failure to renovate the facility will result in increasing costs for repairs of aging infrastructure, the inability to implement security and technology upgrades, reduced customer service levels, and does not provide adequate facilities for the safety and health of our staff.

**LINKS TO OTHER PROJECTS OR FACILITIES:** Improvements will be coordinated for cost, effort and resource efficiencies, as well as potential design coordination, with improvements at the Rainier Drop-Box Facility.

# Rainier Drop-Box-Renovation, Security and Utility Upgrades, and Scale Installation



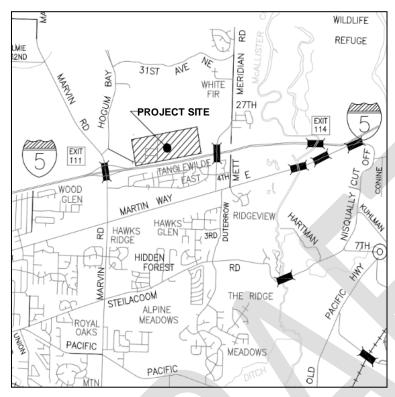
**DESCRIPTION:** Renovation of the Rainier Drop-Box Facility to include security and utility upgrades, improved staff facilities, and installation of scales for weighing loads

**LOCATION:** 13010 Rainier Acres Road SE, Rainier

JUSTIFICATION: Infrastructure at the drop-box facility is obsolete and inadequate to meet staffing, operational, and technology needs, as well as increased customer demand. Scales should be installed at the site to improve functionality, accommodate population growth, and ensure full fee recovery.

**IMPLICATION OF NOT DOING THE PROJECT(S):** Failure to renovate the facility will result in increasing costs for repairs of aging infrastructure, the inability to implement security and technology upgrades, reduced customer service levels, and does not provide adequate facilities for the safety and health of our staff.

**LINKS TO OTHER PROJECTS OR FACILITIES:** Improvements will be coordinated for cost, effort and resource efficiencies, as well as potential design coordination, with improvements at the Rochester Drop-Box Facility.



# **Pump Systems Upgrades and Improvements**

**DESCRIPTION:** Projects include repairs and upgrades to:

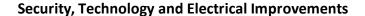
- Pump station 001 Leachate Lagoon Outlet to improve function of valve station, configuration, and access, including eliminating need for confined-space entry;
- Pump station 002, which transfers waste water from the transfer station to the main sanitary line;
- Pump station 003 replacement, which transfers combined waste water and leachate off site;
- Stormwater transition pond, which channels stormwater offsite. Adding SCADA control functionality will allow for full pump system integration.

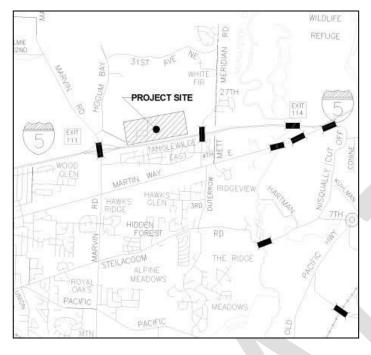
LOCATION: Thurston County Waste and Recovery Center, 2420 Hogum Bay Road, Lacey

**JUSTIFICATION:** All existing pump systems have aging equipment requiring repair or replacement in order to manage waste water, leachate and stormwater effectively, with regular, accessible maintenance and integrated controls. Systems must allow for monitoring and sampling to meet permit requirements.

**IMPLICATION OF NOT DOING THE PROJECT(S):** Failure to address needed repairs and upgrades will compromise the ability to transfer waste water from the transfer station, stormwater from the transition pond, compromise the ability to control discharge from the leachate lagoon, and maintenance efforts for 001 will continue to require confined-space entry.

**LINKS TO OTHER PROJECTS OR FACILITIES:** The pump systems improvements and repairs will be linked to the electronic system designed and installed as part of the flare station and SCADA system replacement.





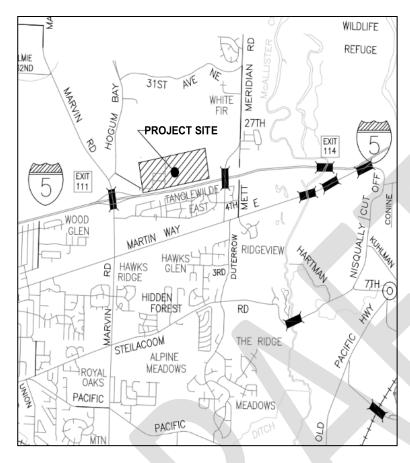
DESCRIPTION: Improved site security including lighting, cameras, fencing, and access control; technology upgrades to replace obsolete components and replace outdated scale software and accounting software and hardware, improved network infrastructure and connectivity needs; and electrical system upgrades including facility back-up generator systems.

LOCATION: Thurston County Waste and Recovery Center, 2420 Hogum Bay Road, Lacey (scale software and hardware improvements to also be deployed at Rainier and Rochester Drop-Box Facility sites)

**JUSTIFICATION:** Much of the infrastructure associated with security and technology is insufficient or obsolete. Improved site security including lighting, cameras, fencing, and access control are required in order to prevent access by unauthorized persons and vehicles when facility is closed. The facility's emergency power back-up systems and communication / network infrastructure require improvements in order to support security and technology upgrades and reduce service disruptions from network and power outages. An upgrade in scale, data reporting and accounting software and hardware in necessary to ensure accuracy of data and transactions, address facility growth in customers, and improve efficiency.

**IMPLICATION OF NOT DOING THE PROJECT(S):** Security issues resulting from unauthorized persons and vehicles accessing the site when the facility is closed will not be addressed. In addition, needed technology upgrades and replacement of obsolete components that are required to support improved security and connectivity will not occur. The scale software used for all facility transactional and financial data is expected to no longer be supported within the next few years.





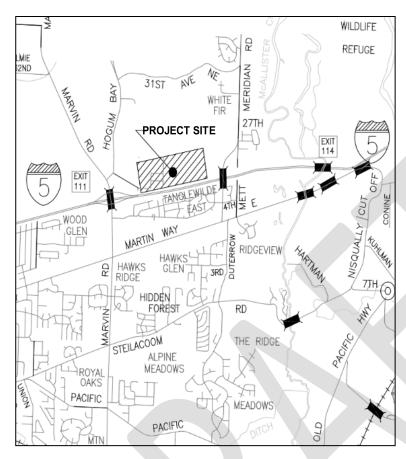
**DESCRIPTION:** Upgrades to the transfer station lower bay area to address stormwater and security issues, and other infrastructure improvements to the transfer station.

**LOCATION:** Thurston County Waste and Recovery Center, 2420 Hogum Bay Road, Lacey

JUSTIFICATION: The lower bay area of the transfer station is unpaved, and the resulting dust, mud, and ponding are causing negative impacts to the stormwater collection system. In addition, lighting in the area is insufficient for working and security. Infrastructure has deteriorated to the point that working surfaces are worn through.

**IMPLICATION OF NOT DOING THE PROJECT(S):** Failure to address the lack of paving and improper grade in the lower bay area will result in continued negative impacts to the stormwater collection system, which would have to be addressed through increased and ongoing maintenance of that system. Further deterioration of the infrastructure will cause operational inefficiencies and potential safety issues.

#### **Transfer Station Sort Line Removal**



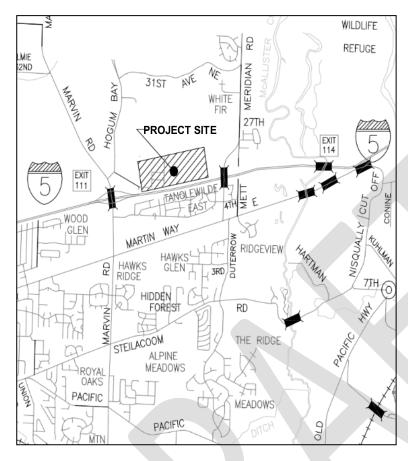
**DESCRIPTION:** Removal of the transfer station sort line in order to increase the available tipping floor space in the transfer station.

**LOCATION:** Thurston County Waste and Recovery Center, 2420 Hogum Bay Road, Lacey

JUSTIFICATION: A sort line for recovering materials from waste brought to the transfer station has been out-of-use since 2014 and needed repairs are estimated to cost over \$1,000,000. Removal of the sort line is a cost-effective way to increase available floor space in the transfer station and potentially defer the need for future expansion.

**IMPLICATION OF NOT DOING THE PROJECT(S):** The transfer station operation would benefit from the additional floor space within the transfer station created by removal of the sort line.





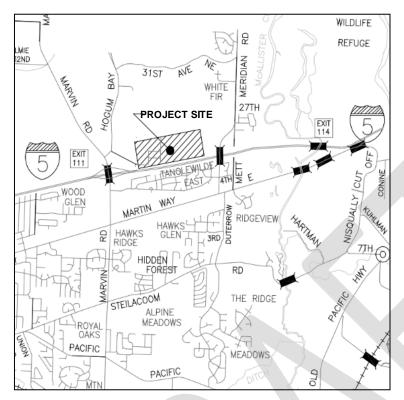
**DESCRIPTION:** Overhaul and maintenance of the transfer station compactor, which is used to load solid waste in rail containers for transportation to the landfill for disposal.

**LOCATION:** Thurston County Waste and Recovery Center, 2420 Hogum Bay Road, Lacey

JUSTIFICATION: Capacity of the transfer station is limited by the load-out rate of the single compactor. The transfer station compactor must be overhauled and routinely maintained through 2030 to ensure uninterrupted operation. (Compactor replacement anticipated in 2031.)

**IMPLICATION OF NOT DOING THE PROJECT(S):** Maintenance of the compactor is required in order to keep up with loading the incoming waste delivered to the site and ensure efficient transfer to the disposal facility (i.e., landfill).

### **Public Tipping Area with New Scales and Scalehouses**



**DESCRIPTION:** Relocation of the Public Tipping Area (PTA) from the closed landfill to the southern portion of the facility to include installation of new scales and scalehouses.

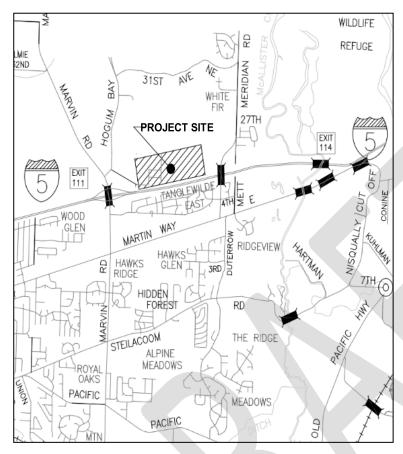
**LOCATION:** Thurston County Waste and Recovery Center, 2420 Hogum Bay Road, Lacey

**JUSTIFICATION:** The existing PTA, scales, and scalehouses are constructed on the closed landfill and require significant initial and ongoing repairs due to differential settlement. Relocation of this infrastructure is recommended in order to eliminate ongoing maintenance issues; expand facility capacity; improve customer access; and reduce wait times, customer queuing, and traffic conflicts.

**IMPLICATION OF NOT DOING THE PROJECT(S):** Significant costs would be incurred to repair damage caused by differential settlement to the existing PTA, scales, scalehouses, and ramps, and these costs would be ongoing as settlement continues. In addition, existing infrastructure is inadequate to meet increasing demand for services and address traffic flow and customer safety issues.

**LINKS TO OTHER PROJECTS OR FACILITIES:** Relocation of the PTA off the closed landfill would eliminate the need for the two projects associated with assessment and repair of the existing scales/scalehouses and PTA.

### **New Administrative Operations Building**



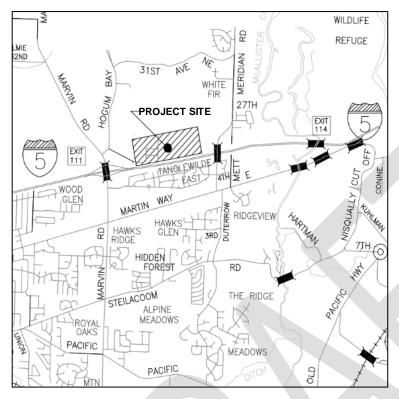
**DESCRIPTION:** Construction of a consolidated administration building(s) at the Waste and Recovery Center.

**LOCATION:** Thurston County Waste and Recovery Center, 2420 Hogum Bay Road, Lacey

JUSTIFICATION: Construction of a consolidated administrative building(s) outside of the footprint of the closed landfill is recommended to address technology, security, and health and safety needs. This new construction is in lieu of replacing three existing structures located on the closed landfill that are obsolete and damaged by differential settlement.

**IMPLICATION OF NOT DOING THE PROJECT(S):** The three existing administrative structures on the closed landfill are obsolete and damaged by differential settlement.





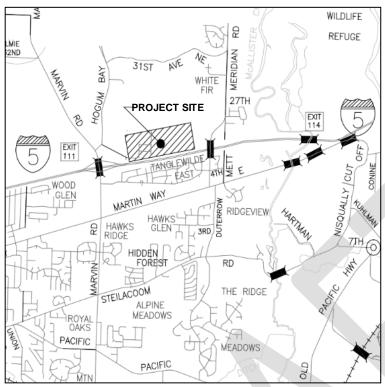
**DESCRIPTION:** Differential settlement caused by decomposing waste within the closed landfill negatively impacts facility infrastructure and requires ongoing assessment and repair.

**LOCATION:** Thurston County Waste and Recovery Center, 2420 Hogum Bay Road, Lacey

JUSTIFICATION: The facility infrastructure that is constructed on closed landfill is subject to differential settlement and requires ongoing assessment and repair to protect County investment as well as to maintain landfill integrity and stay within regulatory compliance.

**IMPLICATION OF NOT DOING THE PROJECT(S):** Failure to maintain environmental systems and positive drainage would negatively impact landfill integrity and the County's ability to meet permit requirements. Also, infrastructure constructed on the closed landfill must be assessed and repaired in order to maintain service levels and prevent potential safety hazards.

### **General Facilities Renovations and Upgrades Program**



**DESCRIPTION:** Renovations and upgrades to existing facilities and site to maintain current level of service.

**LOCATION:** Thurston County Waste and Recovery Center, 2420 Hogum Bay Road, Lacey

JUSTIFICATION: The facilities and site infrastructure are reaching the end of their useful operational life with many components constructed on closed landfill subject to differential settlement. Emerging situations and ongoing degradation will require prompt repair action in order to ensure landfill integrity, stay within regulatory compliance, and ensure the safety of staff.

**IMPLICATION OF NOT DOING THE PROJECT (S):** Failure to maintain the facilities and infrastructure would negatively impact landfill integrity and the County's ability to meet permit requirements as well as maintain current level of service and adequately provide for staff safety.

#### **CHAPTER 4 - STORMWATER UTILITIY FACILITIES**

Discharge of county's drainage systems to natural surface waters systems results in the county being subject to the federal Clean Water Act through the National Pollutant Discharge Elimination System (NPDES) permit program administered by Washington Department of Ecology. Chapter 7 of the Comprehensive Plan (Utilities) provides policy guidance related to stormwater management in Thurston County.

#### **Existing Inventory**

The county maintains inventory on nearly 103 miles of pipe systems; nearly 6,290 catch basins, 3,246 culverts and 26,765 pipes, ditch or swales. The county also maintains a drainage inventory of the 77 county owners or operated and the 991 privately owned stormwater facilities. The Surface Water Utility maintains these inventories in VUEWorks.

#### **Future Needs**

In 2008, the Stormwater Management Utility was expanded countywide to address NPDES permitting and countywide basin planning. Projects for the area will be generated by the County basin characterizations, basin plans and GIS inventory. The capital projects intend to address emerging environmental or regulatory issues relating to flooding, water quality and/or habitat degradation.

The capital facility projects identified serve previously developed areas within the Stormwater Utility. Many of these areas have inadequate or failing pre-existing stormwater systems, which cause localized flooding, and in some cases affect or could affect water quality and freshwater and marine habitat.

New stormwater facilities constructed in association with parcel development are subject to the requirements set forth by the current edition of the Thurston County Drainage Design and Erosion Control Manual (DDECM). These new facilities are funded entirely by the developer, and address potential flooding and water quality impacts, which are a direct result of the planned development.

### **Proposed Improvements**

Stormwater Improvement projects totaling more than 8.7 million are proposed over the six-year planning period as shown in table 4-1. These costs would be paid by stormwater utility fees and/or grants.

Table 4-1: Public Works Stormwater Utility Projects

| REVENUES FOR PROJECTS    |  |             |             |           |             |           |          |             |
|--------------------------|--|-------------|-------------|-----------|-------------|-----------|----------|-------------|
| Fund Source              |  | 2021        | 2022        | 2023      | 2024        | 2025      | 2026     | 6-Yr. Total |
| Stormwater Utility Rates |  | \$2,488,685 | \$3,195,000 | \$947,000 | \$1,479,000 | \$599,000 | \$50,000 | \$8,758,685 |
| TOTALS                   |  | \$2,488,685 | \$3,195,000 | \$947,000 | \$1,479,000 | \$599,000 | \$50,000 | \$8,758,685 |

|  |                |                      |             |             |           |           | 1    |      |             |
|--|----------------|----------------------|-------------|-------------|-----------|-----------|------|------|-------------|
|  |                |                      |             |             |           |           |      |      |             |
| Project Name                             | Fund<br>Source | Urban Growth<br>Area | 2021        | 2022        | 2023      | 2024      | 2025 | 2026 | 6-Yr. Total |
| Project Name                             | Source         | Alea                 |             |             |           |           |      |      |             |
| Boston Harbor Road NE Stormwater         |                | Rural Thurston       |             |             |           |           |      |      |             |
| Conveyance and Outfall Improvements      | SUR            | County               | \$1,493,685 | \$10,000    |           |           |      |      | \$1,503,685 |
|  |                | Rural Thurston       |             |             |           |           |      |      |             |
| Woodard Creek Retrofit - Site 4          | SUR            | County               | \$300,000   | \$1,575,000 |           |           |      |      | \$1,875,000 |
| Woodard Creek Retrofit - Site 1          | SUR            | Olympia UGA          | \$10,000    |             |           |           |      |      | \$10,000    |
| Woodland Creek Estates                   | SUR            | Lacey UGA            | \$85,000    |             |           |           |      |      | \$85,000    |
|  |                | Rural Thurston       |             |             |           |           |      |      |             |
| Manzanita Road Conveyance                | SUR            | County               | \$10,000    |             |           |           |      |      | \$10,000    |
|  |                | Rural Thurston       |             |             |           |           |      |      |             |
| Albany Street Stormwater Pond Retrofit   | SUR            | County               | \$5,000     |             |           |           |      |      | \$5,000     |
| Meadows Subdivision Pond 4C Retrofit     | SUR            | Lacey UGA            | \$141,000   | \$575,000   |           |           |      |      | \$716,000   |
|  |                | Rural Thurston       |             |             |           |           |      |      |             |
| Madrona Beach Road NW Vicinity Retrofits | SUR            | County               | \$70,000    | \$100,000   |           |           |      |      | \$170,000   |
|  |                | Rural Thurston       |             |             |           |           |      |      |             |
| Lemon Road Pond                          | SUR            | County               | \$274,000   | \$682,000   |           |           |      |      | \$956,000   |
|  |                | Rural Thurston       |             |             |           |           |      |      |             |
| Lake St Clair Bridge Stormwater Retrofit | SUR            | County               |             | \$25,000    | \$130,000 |           |      |      | \$155,000   |
|  |                | Rural Thurston       |             |             |           |           |      |      |             |
| Littlerock Area Stormwater Retrofit      | SUR            | County               |             | \$128,000   | \$429,000 |           |      |      | \$557,000   |
| Sherwood Firs - Phase II                 | SUR            | City of Lacey        |             |             | \$58,000  | \$370,000 |      |      | \$428,000   |

Appendix G – Six Year Capital Improvement Program 2021-2026

|  |     | Rural Thurston |             |             |           |             |           |          |             |
|--|-----|----------------|-------------|-------------|-----------|-------------|-----------|----------|-------------|
| Cedar Shores Retrofit <sup>1</sup>                   | SUR | County         |             |             | \$82,000  | \$187,000   |           |          | \$269,000   |
|  |     | City of        |             |             |           |             |           |          |             |
| Stuart Place - Conveyance & Treatment                | SUR | Olympia        |             |             | \$90,000  | \$286,000   |           |          | \$376,000   |
|  |     | Rural Thurston |             |             |           |             |           |          |             |
| Fairground LID Demonstration Project                 | SUR | County         |             |             | \$108,000 | \$254,000   |           |          | \$362,000   |
|  |     | City of        |             |             |           |             |           |          |             |
| Donelly Drive - Infiltration Gallery                 | SUR | Olympia        |             |             |           | \$332,000   | \$265,000 |          | \$597,000   |
|  |     | Rural Thurston |             |             |           |             |           |          |             |
| Cedar Flats Rd. @ Swift Creek - Culvert <sup>2</sup> | SUR | County         |             |             |           |             | \$284,000 |          | \$284,000   |
| Stormwater Facility Improvement Program              |     |                |             |             |           |             |           |          |             |
| 2021-2022  | SUR | Countywide     | \$50,000    | \$50,000    |           |             |           |          | \$100,000   |
| Stormwater Land Acquisition/Conservation             |     |                |             |             |           |             |           |          |             |
| Future Program 2021-2022                             | SUR | Countywide     | \$50,000    | \$50,000    |           |             |           |          | \$100,000   |
|  |     |                |             |             |           |             |           |          |             |
| Stormwater Land Acquisition/Conservation             |     |                |             |             |           |             |           |          |             |
| Future Program 2023-2026                             | SUR | Countywide     |             |             | \$50,000  | \$50,000    | \$50,000  | \$50,000 | \$200,000   |
| TOTALS   |     |                | \$2,488,685 | \$3,195,000 | \$947,000 | \$1,479,000 | \$599,000 | \$50,000 | \$8,758,685 |

Light grey shading, normal font - closeout project

Medium grey shading, bold font - construction project

Black shading, white font - engineering project

### **Lemon Road Pond**



**Description:** Construct a constructed wetland/detention pond to provide water quality treatment and stormwater storage.

**Location:** 4924 Lemon Road NE, Olympia, WA. **Lat:** 47° 6' 9.90027" N **Lon:** 122° 51'

7.26454" W

**Justification (Need/Demand):** Lemon Road floods during heavy rains and becomes impassable. Woodard Creek has a total maximum daily load (TMDL) for bacteria. This project will construct a constructed wetland to provide water quality treatment and storage to improve water quality before discharging to Woodard Creek and relieve flooding on Lemon Road.

**Implication of not doing the project:** Lemon Road will continue to flood during heavy rain and water quality of Woodard Creek will not improve.

Links to other related projects or facilities: Woodard Creek Site 4 Retrofit Project.

### **Boston Harbor Road NE Stormwater Conveyance and Outfall Improvements**



**Description:** Repair/replace failing outfall on Boston Harbor Road, upgrade ditches along Boston Harbor Road, and add a culvert under Boston Harbor Road to reduce flooding.

**Location:** Boston Harbor Rd NE and 73<sup>rd</sup> Ave NE.

Justification (Need/Demand): The outfall on Boston Harbor Road NE is failing and needs to be repaired or replaced. The failure is causing damage to driveway and yard at 7325 Boston Harbor Road NE. In addition, the roadside ditches are too small and cannot handle the flows in large rain events nor do they provide treatment to meet today's stormwater standards. This project would replace the failing outfall, install a culvert under Boston Harbor Road connecting to the new outfall to reroute flows, replace undersized driveway culverts, and upgrade ditches to meet current county standards. This will alleviate flooding that occurs when the water fills the ditch and goes over the road and floods driveways and yards before flowing into the Sound.

**Implication of not doing the project:** Water will continue to erode the yard and driveway at 7325 Boston Harbor Road NE. Flooding will continue along Boston Harbor Road.

Links to other related projects or facilities: None.

### **Madrona Beach Road NW Vicinity Retrofits**



**Description:** Fix five locations along Madrona Beach Road NW where the stormwater infrastructure is failing or inadequate to handle stormwater flows.

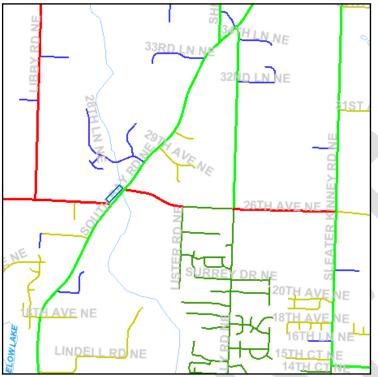
**Location:** Madrona Beach Road NW between Sexton Ave NW and 1330 Madrona Beach Road NW.

Justification (Need/Demand): The stormwater infrastructure at these 5 locations are either undersized or failing which causes flooding and damage to the roadway or driveways. The damage causes erosion which washes sediment and pollutants into Mud Bay and Eld Inlet.

Implication of not doing the project: Flooding and damage to the road and driveways and sediment deposition to Eld Inlet will continue.

Links to other related projects or facilities: None

#### Woodard Creek Retrofit - Site 1



**DESCRIPTION:** Install a bioretention swale and two filter vaults within the Thurston County road Right-of-Way, before discharging directly into Woodard Creek. This project was one of 5 projects identified in the 2014 Woodard Retrofit Study.

**LOCATION:** Along South Bay Road NE near the intersection of 26<sup>th</sup> Ave. NE. Sec. 06, T18N - 01W.

JUSTIFICATION (Need/Demand): The project is located in the Woodard Creek Basin of the Henderson Inlet Watershed. In 2006 the Washington State Department of Ecology published the Henderson Inlet Watershed Fecal Coliform Bacteria, Dissolved Oxygen, pH, and Temperature Total Daily Maximum Load Study. The purpose of the proposed improvements is to improve the water quality of stormwater which is a possible source of bacteria in Woodard Creek, Woodard Bay, and Henderson Inlet. In addition, the Henderson Inlet Watershed Fecal Coliform Water Quality Implementation Plan identified needed reductions in fecal coliform bacteria in the Woodard Creek basin. The project will further Thurston County's efforts to comply with the TMDL requirements.

**IMPLICATION OF NOT DOING THE PROJECT(S):** Further contamination of Woodard Creek with pollutants from stormwater and non-compliance with TMDL requirements

**LINKS TO OTHER PROJECTS OR FACILITIES:** Henderson Inlet Watershed Fecal Coliform Bacteria, Dissolved Oxygen, pH, and Temperature Total Daily Maximum Load Study. Woodard Creek Basin Stormwater Retrofit Study (2014).

#### **Meadows Subdivision Pond 4C Retrofit**



**DESCRIPTION:** The project will retrofit the existing Meadows Subdivision Pond 4C by regrading the site and replacing inlet and outlet structures to meet current water quality treatment and flow control standards.

**LOCATION:** Meadows Subdivision between Clover Loop SE and Gadwell Ct. SE between Steilacoom Rd. SE and Pacific Hwy SE.

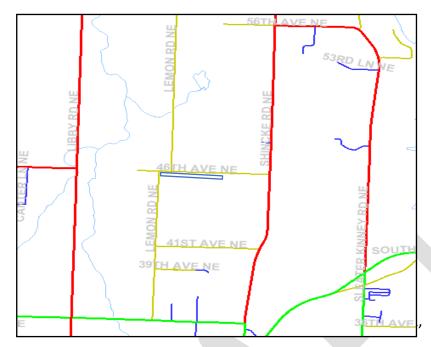
**JUSTIFICATION** (Need/Demand): The subdivision and pond were built in the mid-1980's to the stormwater flow and treatment standards current at the time. These standards do not meet the current standards for water quality

and flow control. This project will retrofit the pond and structures to improve water quality and add flow control to meet current standards, i.e., Core Requirements #6 and #7.

**IMPLICATION OF NOT DOING THE PROJECT:** This system eventually discharges to Little McAllister Creek. If the project is not completed then high flows of untreated stormwater will continue to degrade Little McAllister Creek and McAllister Creek.

**LINKS TO OTHER PROJECTS OR FACILITIES:** This pond is the first pond in a string of ponds that serve the Meadows subdivision including Mallard Pond a former county CFP project. Future retrofit projects will address the downstream ponds.

#### Woodard Creek Retrofit - Site 4



bioretention swales within the Thurston County road right-of-way to filter the water before discharging to a tributary of Woodard Creek and upgrade ditches and culverts along Lemon Road to alleviate flooding. This project was one of 5 projects identified in the 2014 Woodard Retrofit Study.

LOCATION: Along the south side of 46<sup>th</sup> Ave. NE between the westerly intersection of Lemon Rd NE and the Chehalis Western Trail. Sec. T19N - 01W.

### JUSTIFICATION (Need/Demand):

The project is located in the Woodard Creek Basin of the Henderson Inlet Watershed. In 2006 the Washington State Department of Ecology published the *Henderson Inlet Watershed Fecal Coliform Bacteria, Dissolved Oxygen, pH, and Temperature Total Daily Maximum Load Study*. The purpose of the proposed improvements is to improve the water quality of stormwater which is a possible source of bacteria in Woodard Creek, Woodard Bay, and Henderson Inlet. In addition, the *Henderson Inlet Watershed Fecal Coliform Water Quality Implementation Plan* identified needed reductions in fecal coliform bacteria in the Woodard Creek basin. The project will further Thurston County's efforts to comply with the TMDL requirements. Additionally, Lemon Rd experiences frequent flooding, project would expand roadside ditches and replace undersized culverts in attempt to alleviate flooding during smaller storm events along the roadway.

**IMPLICATION OF NOT DOING THE PROJECT(S):** Further contamination of Woodard Creek with pollutants from stormwater and non-compliance with TMDL requirements

**LINKS TO OTHER PROJECTS OR FACILITIES:** Henderson Inlet Watershed Fecal Coliform Bacteria, Dissolved Oxygen, pH, and Temperature Total Daily Maximum Load Study. Woodard Creek Basin Stormwater Retrofit Study (2014).

#### **Littlerock Area Stormwater Retrofit**



**DESCRIPTION:** Install approximately 1,100 feet of biofiltration swales and bioretention areas around Littlerock Elementary School, 127 Ave SW, and 128<sup>th</sup> Ave SW to improve water quality before discharging to the Black River and Beaver Creek.

**LOCATION:** Along Littlerock Road SW, 127 Ave SW, and 128<sup>th</sup> Ave SW in the vicinity of Littlerock Elementary

**Justification (Need/Demand):** Untreated stormwater runoff discharges directly to tributaries of the Black River and Beaver Creek from parking areas and roads. Chinook, Coho, Chum, and Steelhead Salmon use the Black River and Beaver Creek for spawning and rearing. Untreated stormwater runoff has been shown to be detrimental to aquatic organisms in general and these species in particular. Biofiltration is effective at removing pollutants from stormwater runoff and improving water quality.

**Implication of not doing the project:** Untreated stormwater runoff will continue to be discharged into the Black River and Beaver Creek and affect salmon species and other aquatic organisms.

Links to other related projects or facilities: None

### **Fairground LID Demonstration Project**



**Description:** Install a variety of green stormwater infrastructure (GSI) best management practices (BMP) around the Thurston County Fairgrounds to manage stormwater and provide educational opportunities.

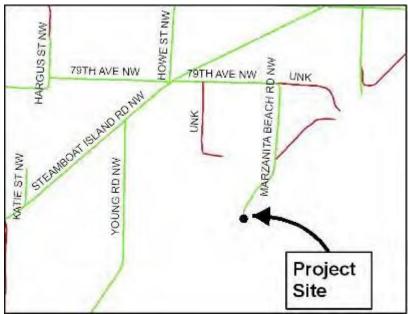
**LOCATION: 3054 Carpenter RD SE** 

**JUSTIFICATION (Need/Demand):** The NPDES permit requires that low impact development techniques be used in new and redevelopment projects. It also has an education and outreach requirement. The Thurston County Fairgrounds has very few stormwater management features because it was built before they were required, therefore it is in need of retrofitting to manage stormwater. In addition, the Fairgrounds is a destination for many Thurston County residents during the county fair and at other times of the year. This project would retrofit parts of the Fairgrounds by installing GSI BMPs to help manage stormwater, both quality and quantity, and provide educational opportunities for Thurston County citizens to learn about low impact development techniques.

**Implication of not doing the project:** Parts of the fairgrounds will continue to have untreated stormwater discharges and missed educational opportunities.

Links to other related projects or facilities: None

## **Manzanita Road Conveyance**



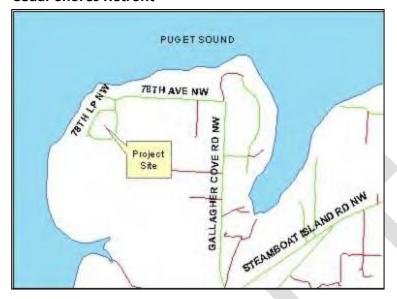
**DESCRIPTION:** Stormwater outfall on a high bank marine bluff.

LOCATION: 7402 Manzanita Dr. NW. Sec. 17, T19N - 02W.

**JUSTIFICATION (Need/Demand):** The storm drainage system installed in the 1960's as part of the Boston Harbor Water Front Acre Tracts Division No. 2 development has deteriorated and is causing bank erosion. This is a drainage facility that the county has ownership and maintenance responsibility for due to its age and previous work and repairs made in the past.

**IMPLICATION OF NOT DOING THE PROJECT(S):** Damage to private property due pipe failure causing erosion of shoreline bank

### **Cedar Shores Retrofit**



**DESCRIPTION:** Improve and expand existing stormwater pond to meet current standards for flow control and water quality treatment. Evaluate improvements to roadside swales to improve water quality treatment.

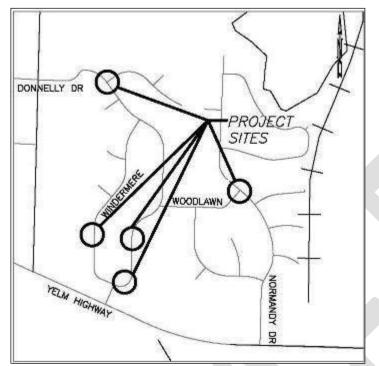
LOCATION: Steamboat Island vicinity. Cedar Shores Subdivision at 78<sup>th</sup> Avenue NW and 78<sup>th</sup> Loop Northwest. Discharge from subdivision's stormwater pond is to a steep ravine discharging to Totten Inlet.

## JUSTIFICATION (Need/Demand):

The storm drainage pond was installed in the early 1980's as part of the Cedar Shores Subdivision. The pond is undersized and has deteriorated to the point where limited flow control is provided to prevent downstream erosion. Downstream erosion of steep channels is causing sediment transport to beaches of Totten Inlet and potentially future slide conditions and property damage including potential for damage to public roadway. This is a drainage facility that the county likely has ownership and maintenance responsibility for due to its age.

**IMPLICATION OF NOT DOING THE PROJECT(S):** Damage to private property and beach due to deposition of sediments and pollutants. Pollutants discharging to Puget Sound (Totten Inlet) potentially adversely affecting shellfish beds and water quality. Continued erosion of steep ravine possibly resulting in slides and property damage to private property and public roads.

## **Donnelly Drive - Infiltration Gallery**



**DESCRIPTION:** Install treatment devices and infiltration systems at five locations along Donnelly Drive.

**LOCATION:** Donnelly Drive SE, from Wiggins Road SE to Yelm Highway SE, and Woodlawn Drive SE at Normandy Drive SE, Sec.32, T18N - 01W

**JUSTIFICATION (Need/Demand):** Portions of Donnelly Drive SE, and Normandy Drive SE flood during major rainfalls and impacts public property and reduces public safety. Roads Maintenance has routinely responded to calls from residents for assistance. Project will reduce flooding of public streets and improve water of runoff reaching groundwater and Chambers Ditch.

**IMPLICATION OF NOT DOING THE PROJECT(S):** Local streets will continue to flood causing transportation delays and potentially increase the risk of flood related traffic accidents and property damage. Stormwater runoff from urban streets will flow untreated into Chambers Ditch resulting in water quality degradation.

#### Sherwood Firs - Phase II



**DESCRIPTION:** Retrofit / rehabilitate existing drywells; determine if conveyance system is in need of being upgraded.

**LOCATION:** Sherwood Firs Subdivision, Pamela Dr SE and Steilacoom Rd SE. Sec. 14, T18N - 01W.

### JUSTIFICATION (Need/Demand):

The storm drainage system installed in the 1970's as part of the Sherwood Firs Subdivision is no longer functioning as designed. Over the years the drywells and infiltration trenches have filled with fines and are no longer infiltrating and previous rates. This is a drainage facility that the county has ownership and maintenance responsibility for due to its age and previous work and repairs made in the past to. Road Maintenance has brought this to the storm and surface water utility's attention since staff is called out on a frequent basis to deal with localized road flooding.

IMPLICATION OF NOT DOING THE PROJECT(S): Damage to private property due to flooding.

### **Stuart Place – Conveyance & Treatment**



**DESCRIPTION:** Repair / restore swale leading from catch basin at Stuart St NE east to Sleater Kinney Rd NE.

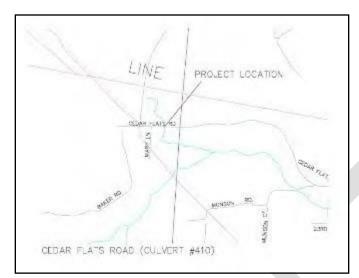
**LOCATION:** Sleater Kinney Rd NE between 15<sup>th</sup> and 26<sup>th</sup> Aves NE.

### JUSTIFICATION (Need/Demand):

The storm drainage system installed in the 1970's as part of the Stuart Place Subdivision is no longer functioning as designed. Over the years, as lots have developed, and ownership has changed hands the drainage ditch providing conveyance from Stuart St NE to Sleater Kinney Rd NE has been filled in or modified and no longer provides a continuous flow path. This is a drainage facility that the county has ownership and maintenance responsibility for due to its age and previous work and repairs made in the past. During larger storm events the water now flows between homes and septic system drain fields near Vicki Ct NE.

**IMPLICATION OF NOT DOING THE PROJECT(S):** Damage to private property due to localized flooding.

### Cedar Flats Rd. @ Swift Creek - Culvert



**DESCRIPTION:** Replace existing 30" concrete culvert with a new pre-cast slab bridge to relieve flooding and provide fish passage.

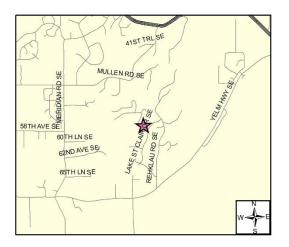
LOCATION: Cedar Flats Road SW at Swift Creek, 3300' northwest of Munson Road SW. Section 22 Township 18 Range 3W

**JUSTIFICATION (Need/Demand):** The existing culvert does not have the capacity topass larger storms. Swift Creek has flooded Cedar Flats Road on average 1-2 times every year. The flooded road poses a risk to motorists and puts at risk the County road and right of way. In addition, Washington Department of Fish and Wildlife have identified this culvert as a barrier to fish passage per WDFW phone conversation and Thurston County Barrier Culvert Inventory prepared by WDFW. Fish present in Swift Creek are chinook, chum, and steelhead.

**IMPLICATION OF NOT DOING THE PROJECT(S):** Continued flooding of Cedar Flats Road during major storms that will put motorists at risk, jeopardize the county road and right of way, and may impact private property. Each closure affects 20 residents. There will continue to be a blockage for fish migration.

**LINKS TO OTHER PROJECTS OR FACILITIES:** Munson Rd @ Swift Creek Culvert Upgrade. This project should occur either at the same time or after the Munson Road project.

### **Lake Saint Clair Bridge Stormwater Retrofit**



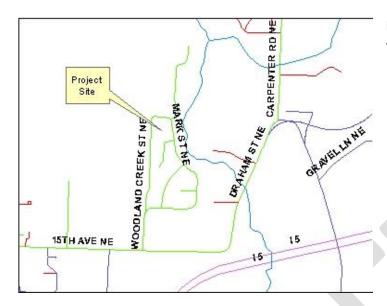
practice to provide enhanced phosphorus treatment to the runoff from the roadway. In addition to treatment, while the facility may not provide flow control, the inflow could be designed to take most of the flow and pass it through a pipe into Lake Saint Clair, which would help with the erosion that occurs on the northeast bank of the bridge.

**LOCATION:** 5733 Lake Saint Clair Dr SE (approx.)

**JUSTIFICATION (Need/Demand):** Lake Saint Clair is surrounded by older development built in the 60's and 70's prior to any stormwater management requirements. The County has received complaints from residents regarding flow barreling uncontrolled down the hill and over the side of the bridge into Lake Saint Clair. In addition to receiving no treatment, the water is eroding the banks around the bridge.

IMPLICATION OF NOT DOING THE PROJECT(S): Continued erosion and potential flooding.

#### **Woodland Creek Estates**



**DESCRIPTION:** Install a bioinfiltration swale with underdrain to treat stormwater runoff.

**LOCATION:** Lacey UGA, Woodland Creek Estates Subdivision located north of 15<sup>th</sup> Avenue NE in vicinity of N. Thurston High School.

### JUSTIFICATION (Need/Demand):

This area is identified as one of the major sources of fecal coliform bacterial pollution to Woodland Creek which is passes through the northern part of the subdivision. It will be subject to a project to convert septic systems to sewer in 2013. The 1995 Woodland/Woodard Creek Basin Plan and the 2006 TMDL study by the Washington State Department of Ecology have shown fecal coliform bacteria pollution in Woodland Creek.

**IMPLICATION OF NOT DOING THE PROJECT(S):** Continuation of water quality impairment in Woodland Creek and Henderson Inlet that has contributed to closed shellfish harvesting areas. An opportunity to tie this project with the sewer system installation will be lost.

LINKS TO OTHER PROJECTS OR FACILITIES: Tanglewilde Retrofits.

### **Albany Street Stormwater Pond Retrofit**



**DESCRIPTION:** Construct an infiltration pond on Albany St. SW and replace storm sewer pipe and catch basins in residential neighborhood to reduce localized flooding.

**LOCATION:** Along Albany St. SW and 102nd Ave. SW in Rochester. Section 31 Township 16 Range 3W Quarter SE SE SS-1072 LT

JUSTIFICATION (Need/Demand): The project is located in Rochester at the intersection of Littlerock Rd SW and Albany St SW and along 102nd Ave SW. Water Resources staff has been contacted repeatedly regarding localized flooding that occurs in the ditches along Albany St SW and partially floods the travel lane there and in residences along 102<sup>nd</sup> St SW. A storm sewer pipe carries water from the street and residences along 102<sup>nd</sup> St SW across a play field and empties into the ditch at the intersection of Albany St SW and Littlerock Rd SW. There is an outfall into a man-made ditch on the other side of Albany St SW, however, due to the flat nature of the site and problems with other culverts and pipes leading to the outfall, the water does not make it to the outfall. The proposed solution would construct an infiltration pond with a culvert under Albany St SW that would drain the ditch and allow an increase in the slope of the storm sewer pipe. This would allow more water to flow from the residential area and into the pond where it could be infiltrated. An overflow will be provided from the pond to the drainage ditch where the current outfall empties.

**IMPLICATION OF NOT DOING THE PROJECT(S):** On-going flooding to Albany St SW and residences along 102<sup>nd</sup> Ave SW.

### **CHAPTER 5 – TRANSPORTATION**

Thurston County is responsible for maintaining over 1,000 miles of roads and associated facilities and 109 bridges. The capital facilities program attempts to meet the demands as the population grows.

#### **Existing Inventory**

Thurston County's roadway network is principally made up of County roads as well as state highways, such as I-5, SR 101, SR 8, SR 12, and SR 507, which provide intercity and interstate connections. Table 6-1 depicts the inventory of County roadways by functional classification.

**Table 5-1 Existing Transportation Facilities** 

| Facility Name            | Location    | Capacity or size (miles) |
|--------------------------|-------------|--------------------------|
| Rural Minor Arterial     | County-Wide | 14.467                   |
| Rural Major Collector    | County-Wide | 225.549                  |
| Rural Minor Collector    | County-Wide | 53.630                   |
| Urban Principal Arterial | County-Wide | 7.308                    |
| Urban Minor Arterial     | County-Wide | 34.667                   |
| Urban Collector          | County-Wide | 17.901                   |
| Bridges                  | County-Wide | 109                      |

Bike Lanes - As upgrades are made to any road above local access, paved shoulders are added which provide space for pedestrian and bicycle use.

The County Public Works Transportation Division also maintains the following inventories:

- Traffic Sign Inventory
- Guardrail Inventory
- Bridge Index (summary of bridge conditions)
- Pavement Management Program (pavement condition survey)
- Thurston County Barrier Culvert Inventory (fish passage)

#### **Future Needs**

The Chapter 5 Transportation of the Thurston County Comprehensive Plan sets level of service (LOS) standards for county roads and associated facilities. The Six-Year Transportation Improvement Program (TIP) specifies the transportation capital program in accordance with the adopted Comprehensive Plan and provides descriptions of each project.

#### **Proposed Improvement Projects**

The county plans to expend approximately \$89.8 million on transportation projects over the next six-year planning period. These projects are improvements or additions to transportation facilities such as roads, bridges, sidewalks, bike lanes, and other roadway features that have been prioritized to meet population demands and within the county budget. The categories below describe the types of projects to be completed. The TIP provides more details about each proposed project and can be found on the Public Works website.

<u>Bridge projects</u> are typically selected by using the State of Washington Inventory of Bridges and Structures (SWIBS) database. The database analyzes the structural adequacy and safety of the bridge, its serviceability and functional obsolescence, and how essential it is for public use. The State Bridge Committee selects bridges based on the SWIBS criteria for available federal funding.

<u>Culvert Projects</u> include those culverts that are in need of repair and/or replacement based upon condition, maintenance history and other criteria.

<u>Design Standard</u> Providing greater lane width, improve roadway curves, slope flattening or increase load carrying capacity on new road construction projects. These does not typically do add lanes except as needed for safety or capacity at certain intersections.

<u>Fish Passage Enhancements</u> that are fish passage barriers or deteriorating culverts are ranked in their order of benefits to salmonid using the Salmon and Steelhead Enhancement and Restoration (SSHEAR) metrology developed by Washington Department of Fish and Wildlife (WDFW). Other priority methods may be used to secure funding depending on the funding opportunities.

<u>Non-Motorized Improvements</u>: Includes the construction of new sidewalks, crosswalks, safe routes to school, and accessibility improvements.

<u>Roadway Capacity</u> improvements are those that assure transportation infrastructure is available to meet demand created by new development as required by the Growth Management Act. County concurrency projects include those not addressed by developers and primarily consist of projects identified as regional needs in the Thurston Regional Transportation Plan, 20-year Transportation Project List contained herein.

<u>Road Preservation</u> considers the inventory of visual pavement distress/cracking, traffic volumes and other factors to rate the pavement. Asphalt overlays are considered a restoration to the roadway versus routine maintenance such as patching or liquid asphalt sealing of the pavement surface.

<u>Safety Improvements</u> includes a variety of investments that are intended to support the goals outlined in the Washington State Strategic Highway Safety Plan, Target Zero. These could include spot improvements such as turn lanes at an intersection or systemic investments made throughout the roadway network. This category also includes repair of compromised roadways where it is determined unsafe to use due to natural disaster, such as floods, mudslides, bank erosion.

<u>Programs</u> include miscellaneous projects, studies, culverts and small bridge improvements and other more minor improvements.



**Table 5-2 Transportation Proposed Projects and Funding** 

| REVENUES FOR PROJECTS   |              |              |              |              |              |             |              |
|---|--------------|--------------|--------------|--------------|--------------|-------------|--------------|
| Fund Source   | 2021         | 2022         | 2023         | 2024         | 2025         | 2026        | 6-Yr. Total  |
| County Roads Fund   | \$7,640,780  | \$3,521,000  | \$6,684,150  | \$5,975,000  | \$5,579,000  | \$5,160,000 | \$34,559,930 |
| Transportation Improvement Board  | \$2,489,207  | \$0          | \$5,285,500  | \$0          | \$0          | \$0         | \$7,774,707  |
| Transportation Impact Fees  | \$1,000,000  | \$2,309,000  | \$0          | \$0          | \$0          | \$0         | \$3,309,000  |
| Washington State Dept. of Transportation                                    | \$300,000    | \$0          | \$0          | \$0          | \$0          | \$0         | \$300,000    |
| Surface Transportation Program / Surface Transportation Block Grant Program | \$1,417,143  | \$735,000    | \$1,969,000  | \$3,199,000  | \$2,241,000  | \$0         | \$9,561,143  |
| Federal Bridge Replacement Fund (BRAC)                                      | \$28,000     | \$0          | \$0          | \$0          | \$0          | \$0         | \$28,000     |
| Local City  | \$480,000    | \$0          | \$0          | \$0          | \$0          | \$0         | \$480,000    |
| Highway Safety Improvement Program  | \$198,000    | \$338,000    | \$180,000    | \$2,466,000  | \$54,000     | \$0         | \$3,236,000  |
| Rural Arterial Program  | \$1,331,000  | \$0          | \$1,800,000  | \$0          | \$0          | \$0         | \$3,131,000  |
| Recreation and Conservation Office Grants                                   | \$1,438,000  | \$0          | \$2,254,000  | \$0          | \$0          | \$0         | \$3,692,000  |
| Real Estate Excise Tax  | \$4,463,000  | \$2,837,000  | \$2,966,000  | \$2,000,000  | \$3,000,000  | \$3,000,000 | \$18,266,000 |
| Other (Developer, other agency, or bond)                                    | \$270,797    | \$2,767,000  | \$493,350    | \$194,000    | \$0          | \$0         | \$3,725,147  |
| Park Impact Fees  | \$0          | \$0          | \$0          | \$0          | \$0          | \$10,000    | \$10,000     |
| Safe Routes To School   | \$0          | \$0          | \$900,000    | 0            | \$0          | \$0         | \$900,000    |
| Federal Highway Bicycle/Pedestrian Grant                                    | \$0          | \$0          | \$819,000    | 0            | \$0          | \$0         | \$819,000    |
| TOTALS  | \$21,055,927 | \$12,507,000 | \$23,351,000 | \$13,834,000 | \$10,874,000 | \$8,170,000 | \$89,791,927 |

| EXPENDITURES FOR PROJECTS                                      |                       |             |          |      |      |      |      |             |
|--|-----------------------|-------------|----------|------|------|------|------|-------------|
| Project Name   | Fund Source           | 2021        | 2022     | 2023 | 2024 | 2025 | 2026 | 6-Yr. Total |
| Mullen Rd Phase 1 (City of Lacey<br>Limits to Carpenter Rd)    | TIB/TIF/Lacey/CR<br>F | \$4,544,787 | \$15,000 |      |      |      |      | \$4,559,787 |
| Yelm Hwy SE & Meridian Rd SE<br>Intersection Improvement       | STP/CRF               | \$2,000,000 | \$7,000  |      |      |      |      | \$2,007,000 |
| Vail Rd SE Improvements Phase 2 (138th Ave SE to 153rd Ave SE) | RAP/CRF               | \$1,735,000 | \$10,000 |      |      |      |      | \$1,745,000 |
| 188th and Moon Rd Intersection                                 | WSDOT                 | \$300,000   | -        |      |      |      |      | \$300,000   |
| Carpenter Rd Barrier   | CRF                   | \$200,000   |          |      |      |      |      | \$200,000   |

| 2018 Highway Safety Improvement     |                 |             |             |             |             |             |             |             |
|-------------------------------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Program                             | HSIP            | \$50,000    |             |             |             |             |             | \$50,000    |
| Marvin Rd Upgrade Phase 2           |                 |             |             |             |             |             |             |             |
| (Mullen Rd to 19th Ave)             | Dev             | \$20,797    |             |             |             |             |             | \$20,797    |
| Reeder Road Bridge R-3 at Beaver    |                 |             |             |             |             |             |             |             |
| Creek                               | BRAC            | \$28,000    |             |             |             |             |             | \$28,000    |
| Johnson Point Rd NE & Hawks         |                 |             |             |             |             |             |             |             |
| Prairie Rd - Intersection           |                 |             |             |             |             |             |             |             |
| Improvements                        | TIF/Dev/STBG    | \$125,000   | \$425,000   | \$240,000   | \$3,020,000 | \$7,000     |             | \$3,817,000 |
| Sargent Rd NW (US12 to Old Hwy      |                 |             |             |             |             |             |             |             |
| 99)                                 | TIF/CRF         | \$100,000   | \$100,000   |             |             |             |             | \$200,000   |
| Yelm Hwy SE and Pacific Ave         |                 |             |             |             |             |             |             |             |
| Pedestrian Improvements, Phase 1    | STP/HSIP/CRF    | \$149,000   | \$714,000   | \$46,000    |             |             |             | \$909,000   |
| Old Hwy 99 & Tilley Rd Intersection |                 |             |             |             |             |             |             |             |
| Improvements                        | CRF             | \$70,000    |             |             |             |             |             | \$70,000    |
| US 12 Urban Improvements (Old       |                 |             |             |             |             |             |             |             |
| Hwy 99 to W. UGA Boundary)          | REET/TIF/Dev    | \$400,000   | \$2,722,000 |             |             |             |             | \$3,122,000 |
| Marvin Rd Upgrade Phase 1 (22nd     |                 |             |             |             |             |             |             |             |
| Ave to Pacific Ave)                 | TIB/TIF/Dev/CRF | \$225,000   | \$3,367,000 | \$6,343,000 | \$10,000    |             |             | \$9,945,000 |
| Littlerock Rd SW and 113th Ave SE   |                 |             |             |             |             |             |             |             |
| (Bridge & Intersection              | TIF/STBG/Dev/C  |             |             |             |             |             |             |             |
| Improvements)                       | RF              | \$157,343   | \$100,000   | \$1,958,000 | \$450,000   | \$7,000     |             | \$2,672,343 |
| 2024 Highway Safety Improvement     |                 |             |             |             |             |             |             |             |
| Program                             | HSIP/CRF        | \$100,000   | \$100,000   | \$200,000   | \$2,740,000 | \$60,000    |             | \$3,200,000 |
| Carpenter Road Pedestrian           |                 |             |             |             |             |             |             |             |
| Improvements - Regional             |                 |             |             |             |             |             |             |             |
| Transition Center                   | REET            | \$350,000   | -           |             |             |             |             | \$350,000   |
| Case Road Fish Barrier Removal      | REET            | \$5,000     |             |             |             |             |             | \$5,000     |
| Gate Road Culvert Replacements      | REET            | \$2,000,000 | \$5,000     |             |             |             |             | \$2,005,000 |
| Fish Passage Enhancement            |                 |             |             |             |             |             |             |             |
| Program (through 2022)              | REET            | \$710,000   | \$1,472,000 |             |             |             |             | \$2,182,000 |
| Latigo St. at Spurgeon Creek &      |                 |             |             |             |             |             |             |             |
| Chehalis Western Trail              | REET/RCO        | \$1,736,000 | \$10,000    |             |             |             |             | \$1,746,000 |
| Old Hwy 99 at Intersections of      |                 |             |             |             |             |             |             |             |
| Sargent Rd and 201st Ave            | STBG/CRF        |             | \$210,000   | \$220,000   | \$564,000   | \$2,750,000 | \$10,000    | \$3,754,000 |
| French Rd NW Culvert                |                 |             |             |             |             |             |             |             |
| Replacement                         | REET/RCO        |             |             | \$2,920,000 |             |             |             | \$2,920,000 |
| Fish Passage Enhancement            |                 |             |             |             |             |             |             |             |
| Program (2023-2026)                 | REET            |             |             | \$1,000,000 | \$1,000,000 | \$1,000,000 | \$1,000,000 | \$4,000,000 |

| Pleasant Glade Elementary        |             |              |              |              |              |              |             |              |
|----------------------------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|
| Pedestrian Improvements          | SRTS/CRF    |              |              | \$1,000,000  |              |              |             | \$1,000,000  |
| Yelm Hwy SE Bridge Replacement   |             |              |              |              |              |              |             |              |
| (O-12)                           | CRF         |              |              |              |              |              | \$50,000    | \$50,000     |
| Gate-Belmore Trail Development   | PIF         |              |              |              |              |              | \$10,000    | \$10,000     |
| Yelm Hwy SE and Pacific Ave Ped  |             |              |              |              |              |              |             |              |
| Improvements, Phase 2            | Bic-Ped/CRF |              |              | \$1,024,000  |              |              |             | \$1,024,000  |
| Country Club Drive at Green Cove |             |              |              |              |              |              |             |              |
| Culvert Replacement              | REET/RCO    |              |              | \$300,000    |              |              |             | \$300,000    |
| 113th Ave SE (SR 121/Tilley to   |             |              |              |              |              |              |             |              |
| McCorkle Rd)                     | CRF         |              |              |              |              |              | \$10,000    | \$10,000     |
| McCorkle Rd SE (113th Ave to Old |             |              |              |              |              |              |             |              |
| Hwy 99)                          | CRF         |              |              |              |              |              | \$10,000    | \$10,000     |
| 183rd Ave (US 12 to Old Hwy 99)  | RAP/CRF     |              |              | \$2,050,000  |              |              |             | \$2,050,000  |
| Road Preservation Program (2021- |             |              |              |              |              |              |             |              |
| 2022)                            | REET/CRF    | \$6,000,000  | \$3,200,000  |              |              |              |             | \$9,200,000  |
| Road Preservation Program (2023- |             |              |              |              |              |              |             |              |
| 2026)                            | REET/CRF    | -            | _            | \$6,000,000  | \$6,000,000  | \$7,000,000  | \$7,000,000 | \$26,000,000 |
| Bridge Program                   | CRF         |              |              |              |              |              | \$10,000    | \$10,000     |
| Culvert Program                  | CRF         |              |              |              |              |              | \$10,000    | \$10,000     |
| Americans With Disability Act    |             |              |              |              |              |              |             |              |
| (ADA) Improvements (2021 - 2022) | CRF         | \$50,000     | \$50,000     |              |              |              |             | \$100,000    |
| Americans With Disability Act    |             |              |              |              |              |              |             |              |
| (ADA) Improvements (2023 - 2026) | CRF         |              |              | \$50,000     | \$50,000     | \$50,000     | \$50,000    | \$200,000    |
| Thurston County Pedestrian and   |             |              |              |              |              |              |             |              |
| Bicycle Program                  | CRF         |              |              |              |              |              | \$10,000    | \$10,000     |
| TOTALS                           |             | \$21,055,927 | \$12,507,000 | \$23,351,000 | \$13,834,000 | \$10,874,000 | \$8,170,000 | \$89,791,927 |

### **Completed projects:**

Olympic View Pedestrian Improvements, Gate-Belmore Engineering Study

## **Dropped projects:**

Mullen Road Overheight Warning Old Highway 99 Rural Capacity Project

#### Legend:

Light grey shading, normal font - closeout project Medium grey shading, bold font - construction project Black shading, white font - engineering project

Bic-Ped - Highway Bicycle-Pedestrian Grant

BRAC - Federal Bridge Replacement Fund

CRF - County Roads Fund

HSIP - Highway Safety Improvement Program

Local City

Dev - Developer

PIF - Park Impact Fees

RAP - Rural Arterial Program

RCO - Washington State Recreation and Conservation Office

REET - Real Estate Excise Tax Second Quarter

SRTS - Safe Routes to School

STBG - Surface Transportation Block Grant

STP - Surface Transportation Program

TIB - Transportation Improvement Board

TIF - Transportation Impact Fees

WSDOT - WA Dept. of Transportation Direct Appropriation



#### CHAPTER 6 – COUNTY OWNED WATER AND SEWER SYSTEMS

The county owns three water systems (Boston Harbor, Grand Mound, and Tamoshan) and 5 sewer systems (Grand Mound, Boston Harbor, Tamoshan/Beverly Beach, Olympic View, and Woodland Creek Estates). Woodland Creek Estates Sanitary Sewer is located within the City of Lacey Urban Growth Area and is maintained by the City of Lacey.

Table 6-1 Existing County Water and Sewer Inventory

| Facility Name            | Location      | # of Connections <sup>1</sup> |
|--------------------------|---------------|-------------------------------|
|                          | SEWER SYSTEMS |                               |
| Grand Mound              | Southwest     | 350                           |
| Boston Harbor            | North         | 264                           |
| Tamoshan / Beverly Beach | Cooper Point  | 117                           |
| Olympic View             | NW            | 27                            |
|                          | WATER SYSTEMS |                               |
| Grand Mound              | Southwest     | 388                           |
| Boston Harbor            | North         | 280                           |
| Tamoshan                 | Cooper Point  | 95                            |

<sup>&</sup>lt;sup>1</sup> One connection to a system can represent more than one Equivalent Residential Unit (ERU). Numbers do not include pending connections.

#### **Future Needs**

A sewer system level of service standard of capacity to provide sewer collection and wastewater treatment services and a water system level of service standard of capacity to provide domestic water and fire flow services for residential, commercial, and industrial uses measured in Equivalent Residential Units (ERU). The minimum ERU for rural is 900 cf/mo and urban is 700 cf/mo. Additionally, sewer systems shall meet federal, state, and local permit requirements for receiving water standards, and water systems shall meet federal, state, and local drinking water standards.

Based on project population growth several new infrastructure improvement projects in the Boston Harbor, Tamoshan and Grand Mound service areas are proposed as well as multiple additional projects to maintain the required level of service.

#### **Proposed Projects**

Improvement projects and associated facilities, totaling more than \$11.6 million, are proposed over the six-year planning period to meet or maintain level of service. These costs would be paid for by utility revenue, Real Estate Excise Tax, and loans as shown in Table 6-2.

Table 6-2 Water and Sewer Proposed Capital Projects and Funding

| REVENUES FOR PROJECTS       |             |             |             |             |             |             |              |
|-----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Fund Source                 | 2021        | 2022        | 2023        | 2024        | 2025        | 2026        | 6-Yr. Total  |
| Water & Sewer Utility Rates | \$792,543   | \$1,031,543 | \$2,619,000 | \$1,357,000 | \$1,451,000 | \$700,000   | \$7,951,086  |
| Real Estate Excise Tax      | \$619,457   | \$2,169,457 |             |             | \$55,000    | \$590,000   | \$3,433,914  |
| Loans/Grants                |             |             | \$40,000    | \$200,000   |             |             | \$240,000    |
| TOTALS                      | \$1,412,000 | \$3,201,000 | \$2,659,000 | \$1,557,000 | \$1,506,000 | \$1,290,000 | \$11,625,000 |

|   | T           |                       |           |           |           |           |           | ı         |             |
|---|-------------|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|
| EVERNOITH INFO FOR DROJECTS                                 |             |                       |           |           |           |           |           |           |             |
| EXPENDITURES FOR PROJECTS                                   |             |                       |           |           |           |           |           | 2026      |             |
| Project Name  | Fund Source | Urban Growth Area     | 2021      | 2022      | 2023      | 2024      | 2025      | 2026      | 6-Yr. Total |
| Utilities Asset Management Plan                             | REET/WSUR   | Rural Thurston County | \$50,000  | \$50,000  |           |           |           |           | \$100,000   |
| SCADA Control System<br>Evaluation/Upgrades                 | WSUR        | Rural Thurston County | \$50,000  | \$150,000 |           |           |           |           | \$200,000   |
| Tamoshan Water Treatment Unit<br>Process Assessment/Upgrade | REET        | Rural Thurston County | \$40,000  | \$140,000 |           |           |           |           | \$180,000   |
| Tamoshan 63rd Ave AC Pipe<br>Watermain Replacement          | L/G         | Rural Thurston County |           |           | \$40,000  | \$200,000 |           |           | \$240,000   |
| Tamoshan 2021-2022 Water Infrastructure Improvement Program | WSUR        | Rural Thurston County | \$35,000  | \$30,000  |           |           |           |           | \$65,000    |
| Tamoshan 2023-2026 Water Infrastructure Improvement Program | WSUR        | Rural Thurston County |           |           | \$85,000  | \$30,000  | \$135,000 | \$190,000 | \$440,000   |
| Tamoshan 2021-2022 Sewer Infrastructure Improvement Program | WSUR        | Rural Thurston County | \$105,000 | \$105,000 |           |           |           |           | \$210,000   |
| Tamoshan 2023-2026 Sewer<br>Infrastructure Improvement      | WCID        |                       |           |           | ¢120.000  | ¢110.000  | ¢180.000  | ¢120.000  |             |
| Program   | WSUR        | Rural Thurston County |           |           | \$120,000 | \$110,000 | \$180,000 | \$120,000 | \$530,000   |

# Appendix G – Six Year Capital Improvement Program 2021-2026

| i                                     | •          | ,                     |           |             |             | · · ·     |           |           |             |
|---------------------------------------|------------|-----------------------|-----------|-------------|-------------|-----------|-----------|-----------|-------------|
| Boston Harbor Wastewater              |            |                       |           |             |             |           |           |           |             |
| Treatment Plant Generator Replacement | REET/WSUR  | Rural Thurston County | \$366,000 |             |             |           |           |           | \$366,000   |
|                                       | KLL17 W30K | Rural murston county  | 3300,000  |             |             |           |           |           | 3300,000    |
| Boston Harbor Well                    | REET       | Rural Thurston County |           |             |             |           | \$55,000  | \$590,000 | \$645,000   |
| Boston Harbor 2021-2022 Water         |            |                       |           |             |             |           |           |           |             |
| Infrastructure Improvement            |            |                       |           |             |             |           |           |           |             |
| Program                               | WSUR       | Rural Thurston County | \$60,000  | \$50,000    |             |           |           |           | \$110,000   |
| Boston Harbor 2023-2026 Water         |            |                       |           |             |             |           |           |           |             |
| Infrastructure Improvement            |            |                       |           |             |             |           |           |           |             |
| Program                               | WSUR       | Rural Thurston County |           |             | \$185,000   | \$85,000  | \$50,000  | \$50,000  | \$370,000   |
| Boston Harbor 2021-2022 Sewer         |            |                       |           |             |             |           |           |           |             |
| Infrastructure Improvement            |            |                       |           |             |             |           |           |           |             |
| Program                               | WSUR       | Rural Thurston County | \$100,000 | \$75,000    |             |           |           |           | \$175,000   |
| Boston Harbor 2023-2026 Sewer         |            |                       |           |             |             |           |           |           |             |
| Infrastructure Improvement            |            |                       |           |             |             |           |           |           |             |
| Program                               | WSUR       | Rural Thurston County |           |             | \$60,000    | \$30,000  | \$70,000  | \$130,000 | \$290,000   |
| Olympic View 2021-2022 Sewer          |            |                       |           |             |             |           |           |           |             |
| Infrastructure Improvement            |            |                       |           |             |             |           |           |           |             |
| Program                               | WSUR       | Rural Thurston County | \$10,000  |             |             |           |           |           | \$10,000    |
| Olympic View 2023-2026 Sewer          |            |                       |           |             |             |           |           |           |             |
| Infrastructure Improvement            |            |                       |           |             |             |           |           |           |             |
| Program                               | WSUR       | Rural Thurston County |           |             | \$10,000    |           | \$10,000  |           | \$20,000    |
| Grand Mound Odor Mitigation at        |            |                       |           |             |             |           |           |           |             |
| North Vac Station                     | WSUR       | Grand Mound           | \$20,000  |             |             |           |           |           | \$20,000    |
| Grand Mound Wastewater                |            |                       |           |             |             |           |           |           |             |
| Treatment Plant Expansion for Class   |            |                       |           |             |             |           |           |           |             |
| A Reclamation                         | REET       | Grand Mound           | \$200,000 | \$2,000,000 |             |           |           |           | \$2,200,000 |
| Grand Mound Clarifier No. 2 Rebuild   |            |                       |           |             |             |           |           |           |             |
| and Recoating                         | WSUR       | Grand Mound           | \$120,000 |             |             |           |           |           | \$120,000   |
| Grand Mound New Water Sources         | WCLID      | Crond Mayord          | · · ·     | Ć15C 000    | ¢354.000    | ¢752.000  | ¢c2c 000  |           | · · · · · · |
| Grand Mound Wastewater                | WSUR       | Grand Mound           | \$31,000  | \$156,000   | \$354,000   | \$752,000 | \$636,000 |           | \$1,929,000 |
| Treatment Plant Second Oxidation      |            |                       |           |             |             |           |           |           |             |
| Ditch                                 | WSUR       | Grand Mound           |           | \$250,000   | \$1,550,000 |           |           |           | \$1,800,000 |
| Grand Mound 2021-2022 Water           | WOUK       | Granu Mound           |           | \$250,000   | \$1,550,000 |           |           |           | \$1,000,000 |
|                                       |            |                       |           |             |             |           |           |           |             |
| Infrastructure Improvement            | WSUR       | Grand Mound           | \$100,000 | \$100,000   |             |           |           |           | \$200,000   |
| Program                               | WSUK       | Grand Mound           | \$100,000 | \$100,000   |             |           |           |           | \$200,000   |

## Appendix G – Six Year Capital Improvement Program 2021-2026

| Grand Mound 2023-26 Water Infrastructure Improvement |      |                    |             |             |             |             |             |             |              |
|--|------|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Program  | WSUR | <b>Grand Mound</b> |             |             | \$50,000    | \$50,000    | \$50,000    | \$110,000   | \$260,000    |
| Grand Mound 2021-2022 Sewer                          |      |                    |             |             |             |             |             |             |              |
| Infrastructure Improvement                           |      |                    |             |             |             |             |             |             |              |
| Program  | WSUR | Grand Mound        | \$125,000   | \$95,000    |             |             |             |             | \$220,000    |
| Grand Mound 2023-2026 Sewer                          |      |                    |             |             |             |             |             |             |              |
| Infrastructure Improvement                           |      |                    |             |             |             |             |             |             |              |
| Program  | WSUR | Grand Mound        |             |             | \$205,000   | \$300,000   | \$320,000   | \$100,000   | \$925,000    |
| TOTALS   |      |                    | \$1,412,000 | \$3,201,000 | \$2,659,000 | \$1,557,000 | \$1,506,000 | \$1,290,000 | \$11,625,000 |

### Legend:

WSUR - Water & Sewer Utility Rates

REET-Real Estate Excise Tax Second Quarter Funds

L/G - Loans/Grants

Light grey shading, normal font - closeout project Medium grey shading, bold font - construction project

Black shading, white font - engineering project



### **Grand Mound System Scada Radio Control Upgrade**



**DESCRIPTION**: Radio SCADA system needs to be upgraded due to communication issues and equipment age. The Radio SCADA system will be updated to allow continued operation and compliance and will aid in ongoing system optimization.

**LOCATION**: 20248 Grand Mound Way, Grand Mound WA.

JUSTIFICATION (Need/Demand): Without proper communication and controls the system will not operate properly.

**IMPLICATION OF NOT DOING THE PROJECT(S)**: The regulatory agencies may impose operational violations, fines, and could impose a moratorium on growth to the area if the county does not take steps to maintain current level of service and comply with the operational permits.

#### **Second Grand Mound Reservoir**



**DESCRIPTION**: Design and construct a second reservoir to meet future development demands and fire flows for emergency services.

**LOCATION**: Grand Mound near the existing reservoir.

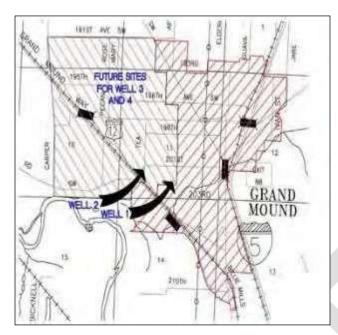
**JUSTIFICATION** (Need/Demand): Increased demand for water service based on urban development and to improve the system capacity to meet fire flow demands.

**IMPLICATION OF NOT DOING THE PROJECT(S):** Inability of utility to provide water connections to new customer and to provide adequate water

pressure needed to meet fire protection needs.



#### **Grand Mound New Water Sources**



**DESCRIPTION**: Evaluation, land acquisition, and installation of future Wells #3 and #4 as new water sources.

**LOCATION**: Pending final well siting evaluation.

**JUSTIFICATION** (Need/Demand): This well site may be required to meet water system demand for the twenty- year planning horizon.

**IMPLICATION OF NOT DOING THE PROJECT(S):** Inadequate pump capacity to meet demand. Reduced economic activity in the Grand Mound.

**LINKS TO OTHER PROJECTS OR FACILITIES:** Grand Mound Highway 99 to Highway 9 Sewer main extension/Grand Mound Water Main Extension.

## Grand Mound Wastewater Treatment Plant Second Oxidation Ditch



**DESCRIPTION**: Design and construct new oxidation ditch, new disinfection equipment, and related components.

**LOCATION**: 20248 Grand Mound Way, Grand Mound WA.

JUSTIFICATION (Need/Demand): Increased demand and regulatory compliance NPDES No. WA0042099. Growth in the Grand Mound UGA will require the WWTP to meet requirements of the NPDES permit.

#### IMPLICATION OF NOT DOING THE PROJECT(S):

Out of compliance with permit and Department of Ecology may levy violations, fines, and may impose a moratorium on growth to the area if the County does not comply with the NPDES permit of planning and scheduling for capital improvements to maintain capacity and achieve the effluent limitation of the permit.

**LINKS TO OTHER PROJECTS OR FACILITIES:** Boston Harbor and Tamoshan Wastewater Treatment facility bio-solids disposal.

#### **Grand Mound Wastewater Treatment Plant Expansion for Class A Reclamation**



**DESCRIPTION:** Expand plant capacity to produce Class A reclaimed water. This was a condition of water rights acquisition. The timing of the improvements is dependent on the use of the water rights.

**LOCATION:** 20248 Grand Mound Way, Grand Mound, WA.

**JUSTIFICATION** (Need/Demand): Regulatory compliance NPDES No. WA0042099.

**IMPLICATION OF NOT DOING THE PROJECT(S):** Department of Ecology may issue violations, levy fines, or impose a moratorium on growth to the area if compliance with the NPDES permit is not followed.

**LINKS TO OTHER PROJECTS OR FACILITIES:** Grand Mound Waste Water Treatment Plant Second Oxidation Ditch.

Grand Mound Wastewater Treatment Plant



**DESCRIPTION**: Assessment and repair of the existing clarifier units at the WWTP.

**LOCATION**: 20248 Grand Mound Way, Grand Mound, WA.

**JUSTIFICATION** (Need/Demand): Regulatory compliance NPDES No. WA0042099.

# IMPLICATION OF NOT DOING THE PROJECT(S): Department of Ecology may issue violations, levy fines, or impose a moratorium on growth to the area if compliance with the NPDES permit is not followed.

#### LINKS TO OTHER PROJECTS OR FACILITIES:

Grand Mound Waste Water Treatment Plant Second Oxidation Ditch.

#### **Grand Mound Way Watermain Loop**



**DESCRIPTION**: Installation of a new water main along Grand Mound Way.

**LOCATION**: New water main would be installed along Grand Mound Way from Old Highway 99 to the existing water treatment plant.

**JUSTIFICATION** (Need/Demand): This would improve water flow reliability and improve water quality. In addition will improve fire flows within the service area.

#### **IMPLICATION OF NOT DOING THE PROJECT(S):**

Reduces water circulation, water quality and impacts fire flows.

#### LINKS TO OTHER PROJECTS OR FACILITIES:

n/a

#### **Grand Mound Vacuum System Program**



**DESCRIPTION**: Evaluation of the existing vacuum sewage collection stations and design of any recommended upgrades.

**LOCATION**: 20248 Grand Mound Way, Grand Mound WA.

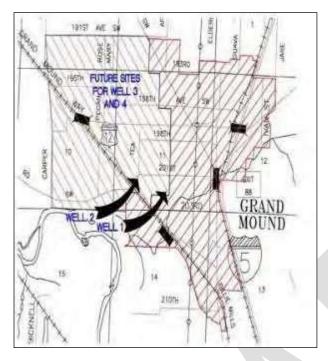
JUTSIFICATION (Need/Demand): Increased demand and regulatory compliance NPDES No. WA0042099. Continued growth in the Grand Mound UGA and due to the age of the vacuum sewage collection system components, the system will need to be upgraded.

#### IMPLICATION OF NOT DOING THE PROJECT(S):

Department of Ecology may levy violations, fines, or impose a moratorium on growth if compliance with the NPDES permit is not maintained.



#### **Grand Mound Sewer and Water Infrastructure Improvement Program**



LINKS TO OTHER PROJECTS OR FACILITIES: n/a

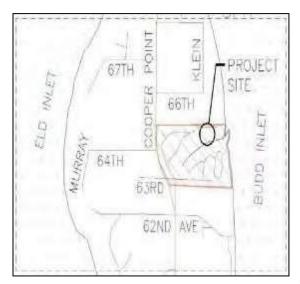
**DESCRIPTION**: Development of a program to maintain and improve the existing water and sewer infrastructure (wells, pumps, piping, equipment, etc.).

**LOCATION**: Grand Mound service area.

JUSTIFICATION (Need/Demand): Increased demand and regulatory compliance NPDES No. WA0042099. Continued growth in the Grand Mound UGA and due to the age of the system.

**IMPLICATION OF NOT DOING THE PROJECT(S):** Department of Ecology may levy violations, fines, or impose a moratorium on growth if compliance with the NPDES permit is not maintained.

#### **Tamoshan Wastewater Treatment Plant and Pump System**



**DESCRIPTION**: Replace failing sewer lift station pump and motor.

**LOCATION**: Beverly Beach Lift Station

**JUSTIFICATION** (Need/Demand): The existing sewer pump is operating out of normal duty cycles due to the pump age and need for a replacement.

#### IMPLICATION OF NOT DOING THE PROJECT(S):

This lift station collects all the sewage from the Beverly Beach homeowners association and pumps it to the WWTP in Tamoshan. A violation could occur if the pump fails.



#### **Tamoshan Water Treatment System**



**DESCRIPTION**: Provide filtration treatment to the current water system to meet DOH requirements.

LOCATION: 2349 63<sup>rd</sup> NW.

**JUSTIFICATION** (Need/Demand): The Tamoshan water treatment does not currently use filtration. Installation of a filtration system will ensure full year-round compliance with primary and secondary treatment standards.

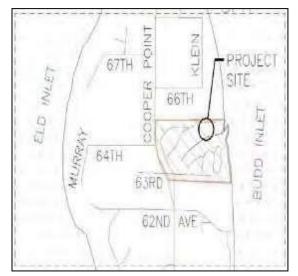
#### IMPLICATION OF NOT DOING THE PROJECT(S):

Continue distributing water that may approach allowable limits for primary and secondary

treatment limits. Regulatory agency may levy violations, fines, and impose additional conditions to the operating permit.



#### Tamoshan Sewer I & I Repair/Upgrades



**DESCRIPTION**: Tamoshan/Beverly Beach sewer has high inflow and infiltration (I&I) of surface water during rain events that exceed the plant limitations. Assess the collection system for I&I and make repairs to limit I&I entering the WWTP.

**LOCATION**: 2349 63<sup>rd</sup> Ave NW Sewer Collection System

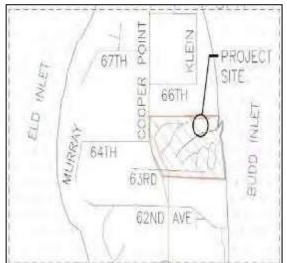
JUSTIFICATION (Need/Demand): I&I is limiting the WWTP treatment efficiency and capacity, increasing the ongoing operational costs, and may lead to potential exceedances of the operating permit conditions.

#### IMPLICATION OF NOT DOING THE PROJECT(S):

Department of Ecology may levy fines if the county does not take the steps to comply with the NPDES permit.



#### **Tamoshan Generator Replacement**



**DESCRIPTION**: Replace existing generator and evaluate backup power alternatives.

**LOCATION**: 2033 Beverly Beach Drive

JUSTIFICATION (Need/Demand): Existing generator is beyond current life expectancy. Emergency backup power will continue to ensure reliable sewer service to the residents of Beverly Beach and will keep raw sewage from going into the bay in the event of a power outage.

#### IMPLICATION OF NOT DOING THE PROJECT(S):

Department of Ecology may levy fines if the county does not take the steps to comply with the NPDES permit.



#### **Tamoshan Sewer and Water Infrastructure Improvement Program**



**DESCRIPTION:** Develop a sewer and water infrastructure program to maintain, repair, and replace failed and aging infrastructure.

LOCATION: Tamoshan system wide.

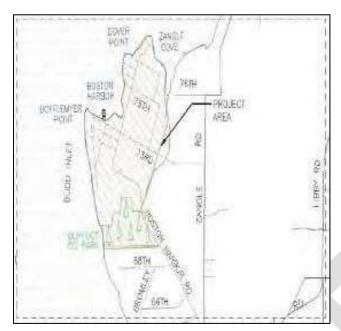
**JUSTIFICATION (Need/Demand):** The existing infrastructure was constructed over 20 years ago and is reaching its life expectancy.

**IMPLICATION OF NOT DOING THE PROJECT(S):** The water and sewer system may experience periodic disruptions in service to customers, a decreased treatment capacity and efficiency, and potential

violations of the operating permits, if infrastructure is not adequately maintained, repaired, and/or replaced prior to critical failure.



#### **Boston Harbor Water Treatment System Upgrades**



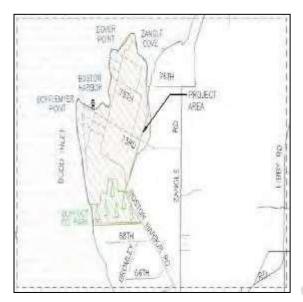
**DESCRIPTION:** Upgrade the water treatment filtration process, install well source meters, and upgrade the generator power switch including a potential building expansion.

**LOCATION:** Boston Harbor School Corner of Zangle and 73<sup>rd</sup> ave. NE.

**JUSTIFICATION (Need/Demand):** The filter media needs to be replaced with high hydraulic loading rate filter media to insure year-round operation during peak water demand periods. The source wells need to be metered in accordance with a DOH permit requirement. The current backup generator needs to be hard-wired into the electrical panel for quick connection and startup during a power outage and potentially the building may need to be expanded to accommodate equipment storage.

**IMPLICATION OF NOT DOING THE PROJECT(S):** Current operation requires bypassing the filtration process during peak water demand periods which increase the likelihood of a permit limit exceedance. The source metering is a requirement of DOH and could result in a potential violation of the permit if not installed. The current response time for bringing the backup generator and system online is limited by the lack of a permanent electrical connection and equipment storage space. Delays could result in a potential permit violation.

#### **Boston Harbor Wastewater Treatment Plant Upgrades**



**DESCRIPTION:** Replace an outdated generator with newer more efficient model and conduct an electrical system upgrade to accommodate the new generator.

**LOCATION:** Boston Harbor WWTP located at 7126 Boston Harbor Road.

**JUSTIFICATION** (Need/Demand): The existing generator was purchased used for this utility and has become outdated. Parts are no longer available, repairs are more frequent and costly, and the unit is not efficient compared with newer units.

#### IMPLICATION OF NOT DOING THE PROJECT(S):

Increased cost to operate the Boston Harbor wastewater plant and possible failure during a power loss.

#### **Boston Harbor Sewer System Program**



**DESCRIPTION:** Repair or replacement of failed, failing and obsolete STEP system force main components.

**LOCATION**: Boston Harbor School Corner of Zangle and 73<sup>rd</sup> Avenue NE.

JUSTIFICATION (Need/Demand): Needed to maintain compliance with Ecology issued NPDES Permit and Health Department Regulations. Spill hazard and compliance issues.

#### IMPLICATION OF NOT DOING THE PROJECT(S):

Increased cost to operate the Boston Harbor sewer system due to incremental repairs and potential emergency callouts for breaks.

#### **Boston Harbor Sewer & Water Infrastructure Improvement Program**



**DESCRIPTION:** Develop a sewer and water infrastructure program to maintain, repair, and replace failed and aging infrastructure.

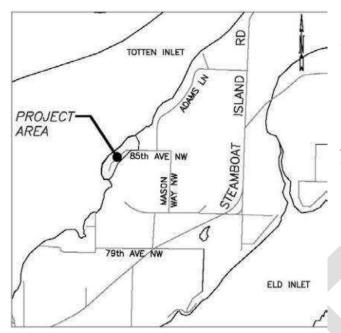
**LOCATION:** Boston Harbor entire service area.

#### JUSTIFICATION (Need/Demand):

The existing infrastructure was constructed is reaching or is already beyond its life expectancy.

**IMPLICATION OF NOT DOING THE PROJECT(S):** The water and sewer system may experience periodic disruptions in service, a decreased treatment capacity and efficiency, and potential violations of the operating permits if infrastructure is not adequately maintained, repaired, and/or replaced prior to critical failure.

#### **Olympic View STEP Tank Repair/Replace**



**DESCRIPTION:** Repair or replacement of failed, failing and obsolete STEP system force main components.

**LOCATION:** Olympic View service area.

JUSTIFICATION (Need/Demand): Needed to maintain compliance with Ecology issued NPDES Permit and Health Department Regulations.

**IMPLICATION OF NOT DOING THE PROJECT(S):** Increased cost to operate the Olympic View system due to incremental repairs and potential emergency callouts for breaks. Spill hazard and compliance issues.

#### **Olympic View Drainfield and Filter System Program**



**DESCRIPTION:** Improve and expand community drainfield, modernize STEP Tank Pumps, Control Boxes, replace lids and construct new cover over electrical components.

**LOCATION** Olympic View community, located on 85<sup>th</sup> Ave. NW.

**JUSTIFICATION (Need/Demand)** The existing STEP systems were installed over 15 years ago. Portions of the collection system should be replaced due to the age and type of original pipe materials used. The drainfield soils and design are not ideal and would not be approved today. May be required to bring drainfield up to current standards to meet DOH required permit.

**IMPLICATION OF NOT DOING THE PROJECT(S):** Increased cost to operate and maintain the Olympic View Utility

#### **CHAPTER 7 - GENERAL COUNTY GOVERNMENT FACILITIES**

The 2019 inventory of the general government facilities that serves the county is 811,409 sq. ft. This inventory is shown below.

Table 7-1 Existing Inventory

| Facility Name                 | Location   | Capacity or size |  |  |  |  |
|-------------------------------|------------|------------------|--|--|--|--|
| Tilley Block Building         | Tilley Rd  | N/A              |  |  |  |  |
| Tilley Sand Shed              | Tilley Rd  | 3,363 sq ft      |  |  |  |  |
| Tilley Bldg A-Administration  | Tilley Rd  | 21,767 sq ft     |  |  |  |  |
| Tilley Bldg B-Traffic         | Tilley Rd  | 12,619 sq ft     |  |  |  |  |
| Tilley Bldg C-Public Works    | Tilley Rd  | 24,070 sq ft     |  |  |  |  |
| Tilley Bldg D-Storage         | Tilley Rd  | 11,400 sq ft     |  |  |  |  |
| Tilley Bldg E-EOC             | Tilley Rd  | 11,619 sq ft     |  |  |  |  |
| Roads Littlerock Equip. Bldg. | Littlerock | 936 sq. ft.      |  |  |  |  |
| Roads Rainier Equip. Bldg.    | Rainier    | 2,100 sq. ft.    |  |  |  |  |
| Roads Rochester Equip. Bldg.  | Rochester  | 2,100 sq. ft.    |  |  |  |  |
| Heritage Hall                 | Fairground | 9,120 sq. ft     |  |  |  |  |
| Benoschek Building            | Fairground | 4,392 sq. ft     |  |  |  |  |
| Deck Building                 | Fairground | 2,560 sq. ft     |  |  |  |  |
| Fir Building                  | Fairground | 2,528 sq. ft     |  |  |  |  |
| Sharp Building                | Fairground | 2,528 sq. ft     |  |  |  |  |

| Facility Name                   | Location   | Capacity or size                                 |  |  |  |
|---------------------------------|------------|--|--|--|--|
| Craft and Hobby                 | Fairground | 6,216 sq. ft                                     |  |  |  |
| Lake Building                   | Fairground | 3,200 sq. ft                                     |  |  |  |
| Food Court                      | Fairground | 2,800 sq. ft                                     |  |  |  |
| Deschutes Grange                | Fairground | 912 sq. ft                                       |  |  |  |
| Restroom Buildings              | Fairground | 1,702 sq. ft                                     |  |  |  |
| Caretakers<br>Residence         | Fairground | 840 sq. ft.                                      |  |  |  |
| Exposition Hall                 | Fairground | 7,000 sq. ft.                                    |  |  |  |
| All sheds and booths            | Fairground | 3,271 sq. ft.                                    |  |  |  |
| All Barns                       | Fairground | 48,600 sq. ft.                                   |  |  |  |
| Courthouse Bldg. 1              | Olympia    | 45,421 sq. ft.                                   |  |  |  |
| Courthouse Bldg. 2              | Olympia    | 35,914 sq. ft. Superior<br>Ct.: 6 Ctrms.         |  |  |  |
| Courthouse Bldg. 3              | Olympia    | 74,471 sq. ft. Jail: 266 beds Dist. Ct.: 3 Ctrms |  |  |  |
| Courthouse Bldg. 4              | Olympia    | 17,622 sq. ft.                                   |  |  |  |
| Courthouse Bldg. 5              | Olympia    | 22,000 sq. ft.                                   |  |  |  |
| Courthouse Bldg. 6              | Olympia    | 9,050 sq.ft                                      |  |  |  |
| Evaluation and Treatment Center | Olympia    | 20,050 sq. ft.                                   |  |  |  |
| Ferguson-Triage                 | Tumwater   | 10,800 sq. ft.                                   |  |  |  |
| Ferguson-Work Release           | Tumwater   | 10,945 sq. ft.                                   |  |  |  |

| Juvenile Justice Center                      | Tumwater | 82,000 sq. ft. in 4 Ctrms.;<br>Detention: 80 beds;<br>Day Detention: 40-80 |  |  |
|--|----------|--|--|--|
| Emergency Services Center                    | Olympia  | 17,997 sq. ft  |  |  |
| Facility Name                                | Location | Capacity or size   |  |  |
| Public Health and Social Service<br>Building | Olympia  | 25,836 sq. ft.   |  |  |
| Coroner Facility                             | Tumwater | 6,950 sq. ft.  |  |  |
| Thurston County Corrections Facility         | Tumwater | 100,000 sq. ft.  |  |  |
| Elections 2905-29th Ave SW                   | Tumwater | 10,770 sq. ft.   |  |  |
| Records Center                               | Tumwater | 10,000 sq. ft.   |  |  |
| Drug Court / Bristol Court                   | Olympia  | 5,008 sq. ft   |  |  |
| Family Support Center                        | Olympia  | 1,000 sq. ft.  |  |  |
| Sheriff Storage-New Market                   | Tumwater | 28,860 sq. ft.   |  |  |
| 2500 Mottman Facilities<br>Shop/Storage      | Olympia  | 11,200 sq. ft.   |  |  |

#### **Future Needs**

Chapter 6 of the Thurston County Comprehensive Plan does not contain level of service standards for general government facilities. Maintenance and Space Needs Assessment Plans inform the projects needed and prioritization, based on goals and polices supportive of providing safe, secure, accessible, and functional County facilities.

#### **Proposed Improvements**

Improvement and maintenance projects on general government facilities and sites over the six-year planning period total approximately \$107 million as shown in table 7-2. General descriptions and location of the proposed projects can be found on pages below.

Table 7-2 General County Government Facilities Proposed Projects and Funding

| REVENUES FOR PROJECTS            | 2021        | 2022         | 2023         | 2024      | 2025        | 2026         | 6-Yr. Total   |
|----------------------------------|-------------|--------------|--------------|-----------|-------------|--------------|---------------|
| Fund Source                      |             |              |              |           |             |              |               |
| Bond-Future                      | \$500,000   | \$5,000,000  | \$51,000,000 | \$0       | \$0         | \$0          | \$56,500,000  |
| Real Estate Excise Tax           | \$3,650,000 | \$16,000,000 | \$0          | \$0       | \$0         | \$20,000,000 | \$39,650,000  |
| Central Service Building Reserve | \$1,622,000 | \$1,160,000  | \$800,000    | \$700,000 | \$1,900,000 | \$700,000    | \$6,882,000   |
| Trial Court Improvement Fund     | \$0         | \$0          | \$0          | \$100,000 | \$0         | \$1,200,000  | \$1,300,000   |
| Grant                            | \$1,500,000 |              |              |           |             |              | \$1,500,000   |
| Road Fund                        | \$1,335,000 | \$0          | \$0          | \$0       | \$0         | \$0          | \$1,335,000   |
| TOTALS                           | \$8,607,000 | \$22,160,000 | \$51,800,000 | \$800,000 | \$1,900,000 | \$21,900,000 | \$107,167,000 |

| EXPENDITURES FOR PROJECTS      |                |                      |             |          | 2023 | 2024 | 2025 | 2026 | 6 Yr. Total |
|--------------------------------|----------------|----------------------|-------------|----------|------|------|------|------|-------------|
| Project Name                   | Fund<br>Source | Urban Growth<br>Area | 2021        | 2022     |      |      |      |      |             |
| Tilley Campus Sand & Material  |                | Rural Thurston       |             |          |      |      |      |      |             |
| Shed                           | CRF            | County               | \$1,080,000 |          |      |      |      |      | \$1,080,000 |
|                                |                | Rural Thurston       |             |          |      |      |      |      |             |
| Tilley South Parking Lot       | CRF            | County               | \$255,000   |          |      |      |      |      | \$255,000   |
| Bldg 5 Parking Lot             | CSRF           | Olympia UGA          | \$150,000   |          |      |      |      |      | \$150,000   |
|                                |                | Rural Thurston       |             |          |      |      |      |      |             |
| Tilley Bld E HVAC improvements | CSRF           | County               | \$150,000   |          |      |      |      |      | \$150,000   |
| Tilley Power System            |                | Rural Thurston       |             |          |      |      |      |      |             |
| Improvements                   | CSRF           | County               | \$147,000   |          |      |      |      |      | \$147,000   |
| Courthouse Building 3 Secured  |                |                      |             |          |      |      |      |      |             |
| Entrance                       | CSRF           | Olympia UGA          | \$225,000   | \$10,000 |      |      |      |      | \$235,000   |
| County Wide Security           |                | Rural Thurston       |             |          |      |      |      |      |             |
| Improvements                   | REET           | County               | \$800,000   |          |      |      |      |      | \$800,000   |
| TCCF Roofing & Stucco Repair   | CSRF           | Tumwater UGA         | \$350,000   |          |      |      |      |      | \$350,000   |
| Fairgrounds Bld Infrastructure |                |                      |             |          |      |      |      |      |             |
| Improvements                   | REET           | Lacey UGA            | \$250,000   |          |      |      |      |      | \$250,000   |
| TCCF Recreation Yard           | CSRF           | Tumwater UGA         | \$200,000   |          |      |      |      |      | \$200,000   |

Appendix G – Six Year Capital Improvement Program 2021-2026

| TOTALS   |       |                          | \$8,607,000 | \$22,160,000 | \$51,800,000 | \$800,000 | \$1,900,000 | \$21,900,000 | \$107,167,000 |
|--|-------|--------------------------|-------------|--------------|--------------|-----------|-------------|--------------|---------------|
| Major Maintenance                                    | CSRF  | LOT Urban                | \$300,000   | \$300,000    | \$300,000    | \$300,000 | \$300,000   | \$300,000    | \$1,800,000   |
| Bldg 4 Resource Room                                 | REET  | Olympia UGA              | 100,000     |              |              |           |             |              | \$100,000     |
| Tilley Pump House Improvements                       | CSRF  | Rural Thurston<br>County |             |              | \$150,000    |           |             |              | \$150,000     |
| Land Acquisition                                     | REET  | Olympia UGA              |             |              |              |           |             | \$20,000,000 | \$20,000,000  |
| Bldg 3 Courtroom Improvements                        | TCI   | Olympia UGA              |             |              |              | \$100,000 |             |              | \$100,000     |
| Bldg 6 HVAC Replacement                              | CSRF  | Olympia UGA              |             |              |              |           |             | \$400,000    | \$400,000     |
| Emergency Services Center Roof<br>Replacement        | CSRF  | Olympia UGA              |             |              |              | \$400,000 |             |              | \$400,000     |
| Family and Juvenile Court Improvements               | TCI   | Tumwater UGA             |             |              |              |           |             | \$1,200,000  | \$1,200,000   |
| TCCF Camera Upgrade                                  | CSRF  | Tumwater UGA             |             |              |              |           | \$1,600,000 |              | \$1,600,000   |
| Bldg 4 Sewer Repair                                  | CSRF  | Olympia UGA              |             | \$50,000     | \$100,000    |           |             |              | \$150,000     |
| TCCF IT Room AC Upgrades                             | CSRF  | Tumwater UGA             |             | \$50,000     | \$250,000    |           |             |              | \$300,000     |
| Thurston County Courthouse<br>Infastructure Upgrades | BF    | Olympia UGA              | \$500,000   | \$5,000,000  | \$45,000,000 |           |             |              | \$50,500,000  |
| CSA Expansion  | Grant | Tumwater UGA             | \$1,500,000 |              |              |           |             |              | \$1,500,000   |
| Bldg 6 Roof Repair                                   | CSRF  | Olympia UGA              | \$50,000    | \$300,000    |              |           |             |              | \$350,000     |
| Family and Juvenile Court<br>Hydronic Repairs        | CSRF  | Tumwater UGA             | \$50,000    | \$450,000    |              |           |             |              | \$500,000     |
| Jail Flex Unit Construction                          | REET  | Tumwater UGA             | \$2,500,000 | \$16,000,000 | \$6,000,000  |           |             |              | \$24,500,000  |

Light grey shading, normal font -

closeout project

Medium grey shading, bold font - construction project

Black shading, white font - engineering project

#### Legend:

CRF - County Road Fund

CSRF - County Service Building Reserve

REET- Real Estate Excise Tax

Grant - State Department of Commerce Long Term Behavioral

**Health Grant** 

#### TCI - Trial Court Improvement Fund

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#### Tilley Campus Sand & Material Storage (25567)



**DESCRIPTION:** This project will construct a new sand and materiel storage structure large enough to meet the storage needs for roads maintenance for the road crews. Cutting, filling, and pavement to support the immediate infrastructure. Upgrade and/or add utilities to support materials storage structure. Removal of the existing material storage shed and restoration of the existing site consistent with planning and permitting authority requirements.

#### JUSTIFICATION (Need/Demand):

Project Scope-Public Work's existing sand and materiel storage shed has been identified as being too close to a wetland area. It is too small for anticipated operational needs and distant from other heavy equipment operations, resulting in inefficient operations and traffic safety issues on site.

LOCATION: 9605 Tilley Road South, Olympia, WA 98512.

**IMPLICATION OF NOT DOING THE PROJECT:** Not proceeding will limit the ability of the County to meet its operational needs and puts the County at risk of a Storm Water Pollution Prevention Plan violation finding from the Department of Ecology.

LINKS TO OTHER PROJECTS OR FACILITIES: Tilley Campus Traffic Safety Improvements.



#### **Tilley Campus South Parking Lot (25603)**



#### **DESCRIPTION:**

This project will design and construct all elements of additional parking for current and future needs. Lighting, stormwater and other necessary infrastructure will be included to support the parking area.

#### JUSTIFICATION (Need/Demand):

The County is growing in population and this supports the additional work that needs to occur on County infrastructure that is the responsibility of the Public Works Department. This adds staff and their personal vehicles and County equipment and vehicles.

In addition to Public Works, this site supports the activities of the ER&R department which provides vehicles and equipment acquisition and maintenance County wide. A large area of the existing parking spaces is allocated to support this County wide effort.

LOCATION: 9605 Tilley Road S, Olympia, WA 98502

#### IMPLICATION OF NOT DOING THE PROJECT:

Staff and County vehicles will not have parking to support the activities of the Public Works department, and the lack of additional parking could negatively impact the capacity of ER&R to support vehicle needs for the rest of the County.

**LINKS TO OTHER PROJECTS OR FACILITIES:** Tilley Campus Sand & Materiel Storage, Tilley Campus Traffic Safety Improvements.

#### **Building 5 Parking Lot (25595)**



#### **DESCRIPTION:**

This project is the removal of existing asphalt and replacement of new asphalt parking lot.

### JUSTIFICATION (Need/Demand):

Project scope-This project is the removal and replacement of the existing asphalt paving that has reached the end of its lifecycle.

LOCATION: 2400 Evergreen Park Dr. SW, Olympia, WA 98502

**IMPLICATION OF NOT DOING THE PROJECT(S):** Parking lot asphalt is in disrepair and is a trip hazard and could cause a litigation for the County.

#### **Emergency Management Building E HVAC Improvements**



#### **DESCRIPTION:**

The project will improve air handling equipment to limit smoke infiltration into the building.

Project Scope – Modify the air handling equipment so that smoke from burning projects adjacent to the facility is filtered out of incoming air. This project will provide quality air for an essential county building.

This project does not include replacement of the existing equipment.

#### JUSTIFICATION (Need/Demand):

This building and the essential activities that occur in this building must operate without impact from exterior events. It is located immediately adjacent to an area where burning is legally conducted at various times throughout the year.

**LOCATION:**9521 Tilley Road S, Olympia, WA 98502

#### IMPLICATION OF NOT DOING THE PROJECT:

Staff will continue to be negatively impacted by the events occurring outside of the building that permeate the building air. Adjustments of the current equipment does not solve the condition.

#### **Tilley Power System Improvements (25539)**



#### **DESCRIPTION:**

This project is for the installation of a new generator to run the brine and water system in the event of a power outage and the assessment of power need of ER&R shops.

Project Scope – Purchase and install a new generator to run water systems and brine operations in the event of a power outage. And to assess power loads on existing infrastructure and determine the needs for existing tenants and their future expansion.

**LOCATION:**9605 Tilley Road S, Olympia, WA 98502

**JUSTIFICATION** (Need/Demand): The existing generator that is on site to run Tilley Campus emergency operations does not currently include the water or brining system.

**IMPLICATION OF NOT DOING THE PROJECT:** Not doing the project could affect the ability of Public Works to run brining operations or have running water for the facility in the event of a power outage.



#### **Courthouse Building #3 Secured Entrance (25584)**



**DESCRIPTION:** This project will potentially construct an expanded secured entry for Building #3, as recommended in the 2014 SNAP Study.

#### JUSTIFICATION (Need/Demand):

Project Scope- The Courthouse Campus was built in 1978 and at that that time security and design needs were not the same as they are today. The entry and lobby area of Building 3 creates a choke point for security screening. This creates the possibility for a potential safety problem due to the confined area in which screening takes place.

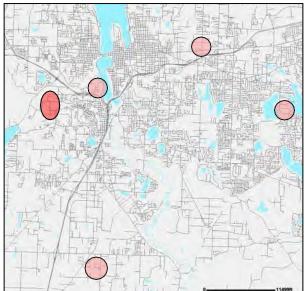
LOCATION: 2000 Lakeridge Dr. SW, Olympia, WA 98502

#### IMPLICATION OF NOT DOING THE PROJECT(S):

If the entry is not changed it will continue to cause safety risks for both the public and the staff creating a very stressful environment.

**LINKS TO OTHER PROJECTS OR FACILITIES:** Courthouse and Regional Administrative Building, Thurston County Courthouse Infrastructure Improvements, Building 3 Court Improvements

#### **County-Wide Security Improvements (25571)**



#### **DESCRIPTION:**

Develop a plan and projects to assess, improve and standardize critical security infrastructure throughout County facilities for workplace and public safety.

Project Scope: Conduct the planning, design, installation, and configuration of standardized security systems and supporting infrastructure in order to meet needs of tenants at the following facilities in priority order: Courthouse Buildings 5 and 6; Emergency Services Center; Public Health Building; Family Justice Center; Fairgrounds, Coroner; Tilley Campus Buildings A through E. Conduct a needs assessment and develop a plan for proposed improvements. Identify viable funding resources. Determine sequence and timeline for

improvements. Advise County leaders in reviewing and/or establishing supporting operational policies and procedures. Project components may include:

- Door Access Control/Card Key Systems
- Duress Alarms & Mass Notification Systems
- Security Camera Systems
- Intrusion Detection Systems
- Minor Structural Modifications to Enhance Physical Security.

**LOCATION:** County facilities at 2400 Evergreen Park Drive, 926 24th Way, 2703 Pacific Avenue, and 412 Lilly Road in Olympia, 3054 Carpenter Road in Lacey, 2801 32nd Avenue in Tumwater, and 9605 Tilley Road in rural Thurston County.

JUSTIFICATION (Need/Demand): County facilities security systems and infrastructure have been added ad hoc as resources could be identified. The result is an inconsistent and incomplete patchwork of aging systems, equipment, and technologies that fail to meet contemporary security needs. Security incidents and drills have shown the need for better security systems and infrastructure. A plan to deploy more integrated and standardized security tools across County facilities is needed to assure public and employee safety. In 2015, the County completed a study to evaluate security vulnerabilities of certain Courthouse buildings and recommend operational and/or system improvements. This has informed projects in 2016-18 to improve security for Buildings 1-4 at the Courthouse and will inform other Countywide security improvements.

**IMPLICATION OF NOT DOING THE PROJECT:** Continuing risk of injury or possible loss of life to employees and the public; continued financial losses and service disruptions due to thefts and vandalism.

## Thurston County Correction Facility (TCCF) Roofing and Stucco Repair (25605)

the facility.

#### **DESCRIPTION:**

Repairs to the current roof, flashing and stucco. This project would prevent further damage to the facility.

#### JUSTIFICATION (Need/Demand):

Project Scope – This project would include resealing roof penetrations and flashing along with adding downspouts to avoid water from running down the side of the facility.

**LOCATION:** 3491 Ferguson St. SW, Tumwater, WA 98512

IMPLICATION OF NOT DOING THE PROJECT(S): Without doing this project water will continue to penetrate the building, causing damage to the interior walls and ceiling of

LINKS TO OTHER PROJECTS OR FACILITIES: TCCF Expansion Project, TCCF IT Room AC Upgrades, TCCF Recreation Yard, TCCF Recreation Yard

#### Fairgrounds Building Infrastructure Improvements (25560)



**DESCRIPTION:** This project will make building infrastructure improvements at the Thurston County Fairgrounds and Events Center.

#### JUSTIFICATION (Need/Demand):

Project Scope- Some Fairgrounds and Events Center buildings, structures, and amenities are aging and/or limited in their usability. The County and Fair Boards intend to make capital improvements that will enhance the ability of the site to host more events and increase overall revenue.

**LOCATION**: 3054 Carpenter Road SE, Lacey, WA 98503

#### IMPLICATION OF NOT DOING THE PROJECT(S):

The Fairgrounds would not have an improvement to the site which would improve its operations and usage, as well as its ability to generate revenue.

#### Thurston County Correction Facility (TCCF) Recreation Yard (25607)



#### **DESCRIPTION:**

The Thurston County Correction Facility (TCCF) does not have a recreation yard for the female population, this project will create a recreation yard in the sally port area of the facility.

#### JUSTIFICATION (Need/Demand):

Project Scope – This project would create a fenced and roofed secured enclosure in the Sally Port with intercom and camera surveillance equipment that will run to the transfer station in the intake area for the TCCF.

**LOCATION:** 3491 Ferguson St. SW, Tumwater, WA 98512

#### IMPLICATION OF NOT DOING THE PROJECT(S):

Without doing the project the female population will not

have proper treatment and puts the County at risk of legal action.

**LINKS TO OTHER PROJECTS OR FACILITIES:** TCCF Expansion Project, TCCF IT Room Upgrades, TCCF Roofing & Stucco Repair, TCCF Recreation Yard



#### **Carpenter Road Transition Center Site Development**



#### **DESCRIPTION:**

Conduct the planning, design, and construction of infrastructure improvements to the site.

#### JUSTIFICATION (Need/Demand):

Project Scope – Thurston County needs a safe and secure site for individuals, to help transition back into everyday society

LOCATION: 440 Carpenter Rd SE, Lacey, Wa. 98503

#### IMPLICATION OF NOT DOING THE PROJECT(S):

Not doing this project will limit the abilities the county has to help with the homeless population in the county.

#### Family Justice Center Hydronic Heating System Repair (25611)



#### **DESCRIPTION:**

This project would replace the current heating loop piping and hard lid ceiling.

This will include the replacement of current grooved pipe connections with new welded in place pipe connections. Along with adding an accessible ceiling for future issues. We do not anticipate any redesign of the current system.

#### JUSTIFICATION (Need/Demand):

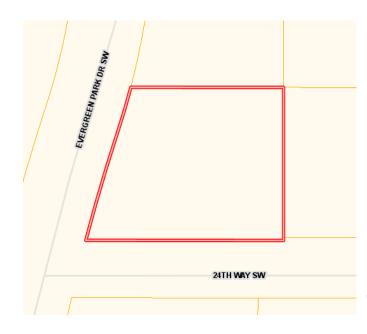
Project Scope- The current heating loop is failing, it is currently experiencing leaks due to the old connections failing, causing damage to existing ceiling and walls. The areas of concern do not currently allow access to the heating loop piping.

LOCATION: 2801 32 Nd Avenue SW, Tumwater, WA 98512

**IMPLICATION OF NOT DOING THE PROJECT(S):** As the system continues to age more leaks will develop, continuing to cause more damage to the current facility. In the event of a major failure it would cause disruptions to the heating system for the courts and detention.

LINKS TO OTHER PROJECTS OR FACILITIES: Family and Juvenile Court Improvements

# **Building 6 Roof Repair (25612)**



#### **DESCRIPTION:**

This project is the removal of existing roofing and the replacement with new composition and PVC **JUSTIFICATION (Need/Demand):** 

Project Scope – The roofing both composition and torch down has reached the end of its useful life and needs to be replaced with new composition and PVC roofing and flashings.

LOCATION: 926 24th Way, Olympia, WA 98502

# IMPLICATION OF NOT DOING THE PROJECT(S):

Not doing this project will put the facility in danger of water damage due to water penetrating the facility.

#### LINKS TO OTHER PROJECTS OR FACILITIES:

Public Defense Upgrades and the County Wide Security Upgrades, Building 6 HVAC Replacement



# CSA Building Triage Expansion (25578)



limit the County's ability to help public at large.

#### **DESCRIPTION:**

This project is a six-bed expansion of the exiting Thurston -Mason County Mental Health Triage Center

### JUSTIFICATION (Need/Demand):

Project Scope – The project is a 2,000 square foot, six bed expansion of the existing Thurston-Mason County Mental Health Triage Center. It will be funded by a Department of Commerce grant.

**LOCATION:** 3825 Ferguson St. SW, Tumwater, WA 98512

# IMPLICATION OF NOT DOING THE PROJECT(S):

Not doing the project will put pressure on the Thurston County Correctional Facility and will

LINKS TO OTHER PROJECTS OR FACILITIES: TCCF Expansion Project

# **Thurston County Courthouse Infrastructure Upgrades (25610)**



#### **DESCRIPTION:**

The Building Condition Assessment completed by MENG analysis identified structure, equipment and systems that have exceeded their lifespan. They require major repair or replacement.

### JUSTIFICATION (Need/Demand):

Project Scope – This project is needed to allow safe and continuous occupancy of the site, along with meeting the space needs of county departments. It also will assure that current safety rules and standards are met.

LOCATION: 2000 Lakeridge Dr. SW, Olympia, WA 98502

# IMPLICATION OF NOT DOING THE PROJECT(S):

Not doing this project will leave both staff and the public in a potentially unsafe and stressful environment. It also leaves the building systems at

risk of catastrophic failure, which may make the buildings unusable until the systems are repaired.

LINKS TO OTHER PROJECTS OR FACILITIES: Building 3 Courtroom Improvements, Building 3 Secured Entrance



# Thurston County Correction Facility (TCCF) IT Room AC Upgrades (25609)



#### **DESCRIPTION:**

The project would include the replacement of the current cooling system for the date room

# JUSTIFICATION (Need/Demand):

Project Scope – The current cooling system is at the end of its useful life and facing imminent failure.

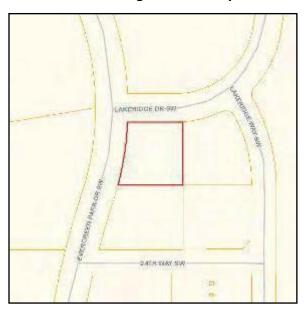
**LOCATION:** 3491 Ferguson St. SW, Tumwater, WA 98512

**IMPLICATION OF NOT DOING THE PROJECT(S):** Failure to proceed with this project will lead to failure of the current cooling system. This will cause the IT equipment located in

the room to overheat and fail. If failure of the equipment occurs, systems at the facility will be inoperable.

**LINKS TO OTHER PROJECTS OR FACILITIES:** TCCF Expansion Project, TCCF Roofing & Stucco, TCCF Recreation Yard, TCCF Camera Upgrade

### **Courthouse Building #4 Sewer Improvement (25613)**



**DESCRIPTION:** This project will replace the existing incoming sewer line, with a new line to the current facility.

### JUSTIFICATION (Need/Demand):

Project Scope – The existing sewer line is partially collapsed. Causing sewage to back up at times.

LOCATION: 929 Lakeridge Dr. SW, Olympia, WA 98502

# IMPLICATION OF NOT DOING THE PROJECT(S):

Not doing this project will lead to failure of the current sewer line. When this occurs, there will be no bathroom facilities available for use on the site therefore not allowing the building to be occupied.

**LINKS TO OTHER PROJECTS OR FACILITIES: N/A** 

# TCCF Camera System Upgrade(25F04)



#### **DESCRIPTION:**

This project would replace the current analog camera system with a new IP based camera system.

### JUSTIFICATION (Need/Demand):

Project Scope – The current camera system is at the end of its lifespan. Procuring cameras and support for the current system has proven to be difficult. The camera system is an important piece to the operation of the facility, along with providing safety for the staff and inmates.

**LOCATION:** 3491 Ferguson St. SW, Tumwater, WA 98512

# IMPLICATION OF NOT DOING THE PROJECT(S):

Not completing this project puts the operations & staff at a major risk if the current system fails and is not repairable.

**LINKS TO OTHER PROJECTS OR FACILITIES:** TCCF Expansion Project, TCCF IT Room Upgrades, TCCF Roofing & Stucco Repair, TCCF Recreation Yard

### Family Justice Center Space Improvements (25F07)



#### **DESCRIPTION:**

This project will potentially remodel a portion of the Family and Juvenile Justice Center for Tenants who occupy portions of the building.

### JUSTIFICATION (Need/Demand):

Changes in operations will require evaluation of existing spaces to ensure the space available for emerging program needs. This is to provide funding for preliminary design to determine if existing space can accommodate those need.

LOCATION: 2801 32<sup>Nd</sup> Avenue SW, Tumwater, WA 98512

### IMPLICATION OF NOT DOING THE PROJECT(S):

Not doing this project may result in programs not operating as

efficiently and safely as may be needed.

LINKS TO OTHER PROJECTS OR FACILITIES: Family and Juvenile Court Hydronic Heating system repair

# **Building 6 Roof Repair (25612)**



#### **DESCRIPTION:**

This project is the removal of existing roofing and the replacement with new composition and PVC

### JUSTIFICATION (Need/Demand):

Project Scope – The roofing both composition and torch down has reached the end of its useful life and needs to be replaced with new composition and PVC roofing and flashings.

LOCATION: 926 24th Way, Olympia, WA 98502

# IMPLICATION OF NOT DOING THE PROJECT(S):

Not doing this project will put the facility in danger of water damage due to water penetrating the facility.

### LINKS TO OTHER PROJECTS OR FACILITIES:

Public Defense Upgrades and the County Wide Security Upgrades, Building 6 HVAC Replacement





#### **DESCRIPTION:**

This project is the removal and replacement of existing Heating Ventilation and Air Conditioning (HVAC) system at Building 6.

### JUSTIFICATION (Need/Demand):

Project Scope – The existing system has reached the end of its practical life span; it is in a constant state of repair and the system is hard to get parts for. The replacement system will be much more energy efficient than the existing system

LOCATION: 926 24th Way, Olympia, WA 98502

# IMPLICATION OF NOT DOING THE PROJECT(S):

Not doing this project will put system at risk of failure which could contribute to further damage to the building with possibility of plumbing system freezing in the winter.

**LINKS TO OTHER PROJECTS OR FACILITIES:** Public Defense Upgrades and the County Wide Security Upgrades, Building 6 roof repairs

#### **Courthouse Building #3 Courtroom Improvements (25F08)**



#### **DESCRIPTION:**

Conduct the planning, design, and construction of restructured space in building 3. This project will conduct a needs assessment and develop a plan of proposed improvements to meet near term requirements for the courts. This includes design and construction of an additional Courtroom and relocation of various departments within District Court to allow more effective operation of District Court within Building 3.

#### JUSTIFICATION (Need/Demand):

Project Scope – District court needs another courtroom to meet demand. District court is also in need of a restructuring of their current office space to house the employees within the department. These projects can include any aspect of

construction, heating, cooling, plumbing, electrical, and miscellaneous infrastructure to support the successful completion of the project.

LOCATION: 2000 Lakeridge Dr. SW, Olympia, WA 98502

### IMPLICATION OF NOT DOING THE PROJECT(S):

Not doing this project will limit the timeliness and levels of service that District Court is charged with providing under the law to the public and would potentially leave both staff and the public in a potentially unsafe and stressful environment.

**LINKS TO OTHER PROJECTS OR FACILITIES:** Building 3 Secured Entrance, Thurston County Courthouse Infrastructure Improvements

# Potential Property Purchase near Courthouse Campus (25F05)



#### **DESCRIPTION:**

Purchase of property near the current Courthouse Campus

# JUSTIFICATION (Need/Demand):

Project Scope – This project represents the purchase of property near the current campus. This allows for the future expansion of the current campus as needed for courts or other departments.

LOCATION: 2000 Lakeridge Dr. SW, Olympia, WA 98502

# IMPLICATION OF NOT DOING THE PROJECT(S):

Not doing this project will limit the ability for

growth of the county departments. The current campus has a great need for more space.

LINKS TO OTHER PROJECTS OR FACILITIES: Thurston County Courthouse Infrastructure Improvements.

### **Tilley Pump House Improvements (25605)**



#### **DESCRIPTION:**

Design and install new equipment in the wellhouse that provides domestic water for activities on the Public Work site and must meet onsite operational need.

Project Scope – This project will design and install new pumps, pressure tanks, and metering to ensure continued operation of the well.

The project is not scoped to drilling a new well or improving the existing wellhouse.

98502

The current equipment is in excess of 25 years old. The industry standard for replacement of this type of equipment is 15 to 20 years. Regular maintenance is performed on this equipment, but there are already indications of failure of the pressure tanks contained within the wellhouse.

#### IMPLICATION OF NOT DOING THE PROJECT:

If a planned project isn't performed, it is likely one or more aspects of this equipment will fail at a time when it would significantly impact the operation of the Tilley Campus. It would be difficult to operate the Tilley Campus without a reliable source of domestic water.

LINKS TO OTHER PROJECTS OR FACILITIES: N/A

# **Courthouse Building #4 Resource Room (25615)**



**DESCRIPTION:** This project will add a resource room for released inmates to use for access to community resources.

### JUSTIFICATION (Need/Demand):

Project Scope – This project will add an area for released inmates to access resources that they may otherwise not have access to.

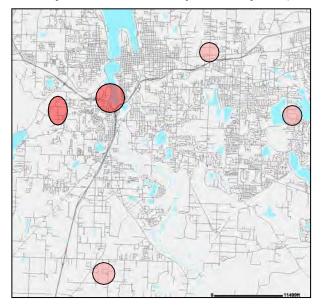
LOCATION: 929 Lakeridge Dr. SW, Olympia, WA 98502

# IMPLICATION OF NOT DOING THE PROJECT(S):

Not doing this project may lead to inmates not having access to what is needed to help to transition back into society.

LINKS TO OTHER PROJECTS OR FACILITIES: Building 4 Sewer Repairs

### Major Maintenance - Special Projects (25999)



#### **DESCRIPTION:**

Plan and conduct miscellaneous facilities maintenance and repair projects in response to emergent life safety and operational needs or regulatory obligations.

Upgrade or replace systems, structures, and equipment as the need arises to maintain current levels of use.

#### JUSTIFICATION (Need/Demand):

The 2016 Building Condition Assessment completed by MENG Analysis identified numerous systems, structures, and equipment at County facilities that have exceeded their useful life and will require repair and/or replacement due to debilitated condition. Many components are exhibiting some level of failure and are requiring stopgap repairs or replacement if stop-gap repairs are not successful.

LOCATION: County facilities at 2000 Lakeridge Drive, 2400

Evergreen Park Drive, 926 24th Way, 2703 Pacific Avenue, and 412 Lilly Road in Olympia, 3054 Carpenter Road in Lacey, 2801 32nd Avenue in Tumwater, and 9605 Tilley Road in rural Thurston County and other buildings as necessary.

#### IMPLICATION OF NOT DOING THE PROJECT:

Not including special projects in the plan would limit the County's ability to address emergent, foreseeable needs, potentially disrupting vital County business operations. Failing to maintain buildings will cause accelerated decay and the eventual need for replacement. Failure to repair and renovate as well as failure to accommodate accessibility issues can place staff and the public at risk.

#### LINKS TO OTHER PROJECTS OR FACILITIES:

#### **CHAPTER 8 – FACILITIES OF OTHER PUBLIC ENTITIES**

Public facilities provided by other public entities in this section is provided for information only. The information is requested annually by Thurston County. The public entities listed are the most accurate source of up-to-date information on their capital facilities plans.

Table 8-1 includes the major public facility improvements planned by school districts, fire districts/authorities, port districts and transit entities that responded to Thurston County's request for information.

**Table 8-1 Facilities of Other Public Entities** 

| Projects (Name and Location of Each Capital Project)      |                | 6 Year Costs | Funding Source (For 6<br>year projects) |
|---|----------------|--------------|---|
| Project Name Location                                     |                |              |   |
| Rainier School District #307                              |                |              |   |
| Construction/modernizations                               | 207 Centre St. | \$1,000,000  | TBD                                     |
| Mechanical/Lighting Upgrades at High<br>School            | 308 Second St. | \$800,000    | TBD                                     |
| Rainier School District Total                             |                | \$1,800,000  |   |
| North Thurston School District #3                         |                |              |   |
| New Construction  | Varies         | \$10,000,000 | Bonds & voluntary mitigation            |
| Modernizations  | Varies         | \$23,000,000 | Bonds & state assistance                |
| Facility Upgrades / Asset preservation                    | District wide  | \$4,000,000  | Bonds                                   |
| Temporary Classrooms purchase (5 per year) and relocation | Varies         | \$550,000    | Bonds & voluntary<br>mitigation         |
| North Thurston School District<br>Total                   |                | \$37,550,000 |   |

| Olympia School District   |   |               |  |  |
|---|---|---------------|--|--|
| Centennial Elementary School<br>Modernization, Mini-Building of 10<br>Classrooms, and New Field | 2637 45 <sup>th</sup> Ave SE<br>Olympia | \$31,100,970  | Bond Financing impact/mitigation fees  |  |
| McLane Elementary School<br>Modernization and Mini-<br>Building of 10 Classrooms                | 200 Delphi Rd. SW                       | \$29,338,575  | Bond Financing impact/ mitigation fees   |  |
| Roosevelt Elementary School<br>Modernization, Mini-Building of 10<br>Classrooms, and New Field  | 1417 San Francisco<br>Ave. NE           | \$26,595,910  | Bond Financing impact/ mitigation fees   |  |
| Capital High School<br>Modernization and JAMS<br>Pathway  | 2707 Conger Ave<br>NW                   | \$37,985,256  | Bond Financing impact/ mitigation fees   |  |
| Olympia High School Addition and<br>Portable Replacement  | 1302 North Street SE                    | \$28,282,547  | Bond Financing impact/ mitigation fees   |  |
| Avanti High School Modernization & Relocation of District Administrative Center                 | 1113 Legion Way SE                      | \$17,718,048  | Bond Financing impact/ mitigation fees   |  |
| Small Works Roster Projects   | Various                                 | \$43,874,781  | Secured local bonds<br>and levy, impact /<br>mitigation fees, and<br>state match revenue |  |
| Olympia School District Total   |   | \$214,899,087 |  |  |

| Rochester School District #401           |                          |              |  |  |
|--|--------------------------|--------------|--|--|
| Construction/Modernization/<br>Expansion | Rochester High<br>School | \$52,000,000 | Proposed bonds and state                                   |  |
| Site acquisition and development         | Various sites            | \$3,000,000  | Proposed bonds and impact fees                             |  |
| Temporary Classrooms & Safety Upgrades   | Various sites            | \$8,000,000  | Mitigation and impact<br>fees and capital project<br>funds |  |

| Independence Park Upgrades                      | Independence Park<br>10140 Hwy 12 | \$125,000     | Community<br>Development Block<br>Grant              |
|---|-----------------------------------|---------------|--|
| Rochester School District Total                 |                                   | \$63,000,000  |  |
| Tumwater School District #33                    |                                   |               |  |
| Tumwater Hill Elementary Renovations            | 3120 Ridgeview Loop SW            | \$250,000     | Capital levy, bonds, grants                          |
| New Alternative Learning Center                 |                                   | \$100,000     | Capital levy, bonds, grants                          |
| New Elementary School #7                        | To Be Determined                  | \$44,500,000  | Proposed bonds/state grant, impact fees              |
| New Market Skills Center – Major<br>Renovations | 7299 New Market St.<br>SW         | \$9,000,000   | State grants and<br>NMSC Capital<br>Investment Funds |
| Bush Middle School Renovations                  | 2120 83rd Avenue SW               | \$23,100,000  | Proposed bonds/state grant                           |
| Tumwater Middle School Renovations              | 6335 Littlerock Rd. SW            | 7,100,000     | Proposed bonds/state grant                           |
| Tumwater High School Renovations                | 700 Israel Rd. SW                 | \$5,100,000   | Secured and proposed bonds                           |
| Black Hills High School                         | 7741 Littlerock<br>Rd. SW         | \$5,100,000   | Secured and proposed bonds                           |
| Various Small Projects                          | Various Locations                 | \$33,140,000  | Secured bonds and capital levy; impact fees, grants  |
| Tumwater School District Total                  |                                   | \$127,390,000 |  |

| Yelm Community Schools District #2                                    |                                  |               |  |  |  |
|---|----------------------------------|---------------|--|--|--|
| Southworth Elementary<br>Replacement                                  |                                  | \$43,075,000  | Bond revenue/State<br>Match                          |  |  |
| Yelm Middle School<br>Replacement                                     |                                  | \$46,760,000  | Bond revenue/State<br>Match                          |  |  |
| District Wide Safety<br>Upgrades                                      | Various                          | \$16,384,000  | Bond revenue   |  |  |
| Yelm High School Gym<br>Roof Replacement                              |                                  | \$350,000     | Impact Fees/General Fund Impact<br>Fees/General Fund |  |  |
| Lackamas Elementary<br>Double Classroom<br>Portable                   |                                  | \$300,000     |  |  |  |
| Relocate 2 Double Classroom Portables from Southworth to Fort Stevens |                                  | \$150,000     | Impact Fees/General Fund                             |  |  |
| District Wide Repairs<br>(roofing/asphalt patch)                      |                                  | \$900,000     | Impact Fees/General Fund                             |  |  |
| Transportation Vacant Building Renovation                             |                                  | \$1,000,000   | Impact Fees/General Fund                             |  |  |
| Relocate Yelm Extension School  |                                  | \$2,000,000   | Impact Fees/General Fund                             |  |  |
| Renovation of YCS Administrative Offices                              |                                  | \$1,000,000   | Impact Fees/General Fund                             |  |  |
| Yelm Community Schools Total  |                                  | \$111,919,000 |  |  |  |
| Griffin School District #324  |                                  |               |  |  |  |
| Perimeter Fencing for<br>School                                       | 6530 33 <sup>rd</sup><br>Ave. NW | \$50,000      | Capital Projects Fund                                |  |  |
| Griffin School District<br>Total                                      |                                  | \$50,000      |  |  |  |

| West Thurston Regional Fire Authority       |  |              |             |  |  |  |
|---|--|--------------|-------------|--|--|--|
| No Capital Projects Reported                |  |              |             |  |  |  |
| South East Thurston Fire Authority          |  |              |             |  |  |  |
| Station #21 Remodel                         | 708 Mill Road                          | \$750,000    | Bond        |  |  |  |
| Station #22 Remodel                         | 17213 153 <sup>rd</sup> Ave. SE        | \$750,000    | Impact Fees |  |  |  |
| Station #41 Upgrade                         | 12506 133 <sup>rd</sup> St.<br>Rainier | \$1,500,000  | Impact Fees |  |  |  |
| South East Thurston Fire<br>Authority Total |  | \$3,000,000  |             |  |  |  |
| Fire District #5 & #9 McLane/Black Lake Fi  | re Department                          |              |             |  |  |  |
| No Capital Projects Reported                |  |              |             |  |  |  |
| Fire District #3 Lacey Fire Department      |  |              |             |  |  |  |
| New Station 34                              | 8407 Steilacoom Rd SE                  | \$8,000,000  | Bonds       |  |  |  |
| Station 33 Addition                         | 6500 Mullen Rd SE                      | \$1,500,000  | Bonds       |  |  |  |
| Repair Facility Additions                   | 8447 Steilacoom Rd SE                  | \$1,500,000  | Bonds       |  |  |  |
| Fire District #3 Lacey Fire<br>Department   |  | \$11,000,000 |             |  |  |  |
| East Olympia Fire District #6               |  |              |             |  |  |  |
| Upgrade Fire Station #64 Training Facility  | 9530 Old Hwy 99                        | \$367,000    | Bond        |  |  |  |
| Fire District #6 Total                      |  | \$367,000    | Bond        |  |  |  |
|   |  |              |             |  |  |  |

| Fire District #8, South Bay                                   |  |            |                                      |  |  |
|---|--|------------|--------------------------------------|--|--|
| 3349 South Bay Rd. NE:  | \$ 25,000                                    |            | Capital Facilities Revolving Account |  |  |
| District Training Center Phase III                            | <u> </u>                                     |            | Capital Facilities Nevolving Account |  |  |
| 5046 Boston Harbor Rd NE:                                     | TBD  |            | TBD                                  | TBD                                      |  |
| Station 8-3 remodel   |  |            |                                      |  |  |
| 5501 63rd Ave NE:   | TBD  |            | TBD                                  |  |  |
| District resident program housing and Station 8-2 replacement |  |            |                                      |  |  |
|   | \$ 25,000                                    |            |                                      |  |  |
| Fire District #12   |  |            |                                      |  |  |
| New Station 12-1  | TBD  | \$6,000,00 | 00,000                               | Bond                                     |  |
| Remodel Station 12-2  | 21249 Bucoda Hwy SE,<br>Centralia            | \$50,000   |                                      | Bond                                     |  |
| Remodel Station 12-4  | 5405 Skookumchuck \$100,000<br>Rd SE, Tenino |            |                                      | Bond                                     |  |
| Fire District #12 Total                                       | \$6,150,00                                   |            | 00,000                               | Bond                                     |  |
| Fire District #16, Rochester                                  |  |            |                                      |  |  |
| No Capital Projects Reported                                  |  |            |                                      |  |  |
| Fire District #17, Bald Hills                                 |  |            |                                      |  |  |
| Station 17-1 Remodel  | 16306 Bald Hill Rd. SE                       | \$ 300,000 | )                                    | To be Determined                         |  |
| Station 17-2 Upgrades   | 17701 Lawrence To be Lake Rd. SE Determined  |            | To be Determined                     |  |  |
| New Station   | To be Determined \$ 3,000,000                |            | 00                                   | To be Determined                         |  |
| Fire District #17 Total                                       | \$ 3,300,000                                 |            |                                      |  |  |
| Port of Olympia (last received update 2013)                   |  |            |                                      |  |  |
| Airport Projects  | Olympia Regional<br>Airport                  | \$3,900,00 | 00                                   | Federal and State grants and local funds |  |

| Marina and Boatworks  | Swantown Marina<br>and Boatworks     | \$1,100,00   | Federal and State<br>grants and Local<br>funds |  |  |
|---|--------------------------------------|--------------|--|--|--|
| Marine Terminal Projects  | Port Marine<br>Terminal              | \$2,000,000  | Federal and State grants<br>& Local Funds      |  |  |
| Environmental Program   | Various Port<br>Properties           | \$1,500,000  | Federal and State grants<br>& Local Funds      |  |  |
| General Projects  | Various Properties                   | \$900,000    | Local funds and third party reimbursements     |  |  |
| Cascade Pole Groundwater<br>Treatment Plant   | Cascade Pole Site,<br>Port Peninsula | \$500,000    | Federal and State grants and local funds       |  |  |
| Port of Olympia Total   |                                      | \$9,900,000  |  |  |  |
| Intercity Transit   |                                      |              |  |  |  |
| Facility expansion, enhancement, access, maintenance, equipment                       | Service District                     | \$65,451,400 | Secured and Estimated Federal Funding Sources  |  |  |
| Intercity Transit Total   |                                      | \$65,451,400 |  |  |  |
| Public Utility District #1  |                                      |              |  |  |  |
| Multiple Water System Upgrades and Facility Replacements                              | Unincorporated<br>Thurston County    | \$675,000    | Capital Project Fund                           |  |  |
| Lew's 81 <sup>st</sup> Consolidation of Class B<br>Water System into a Class A System | Olympia, WA                          |              | Completed                                      |  |  |
| Total Public Utility District #1  |                                      | \$675,000    | -  |  |  |

Note: Some facilities of public entities are undergoing updates of their CFPs at the time of publication of this draft. The numbers and/or projects included in these tables may be updated based on information submitted to the County by these entities.